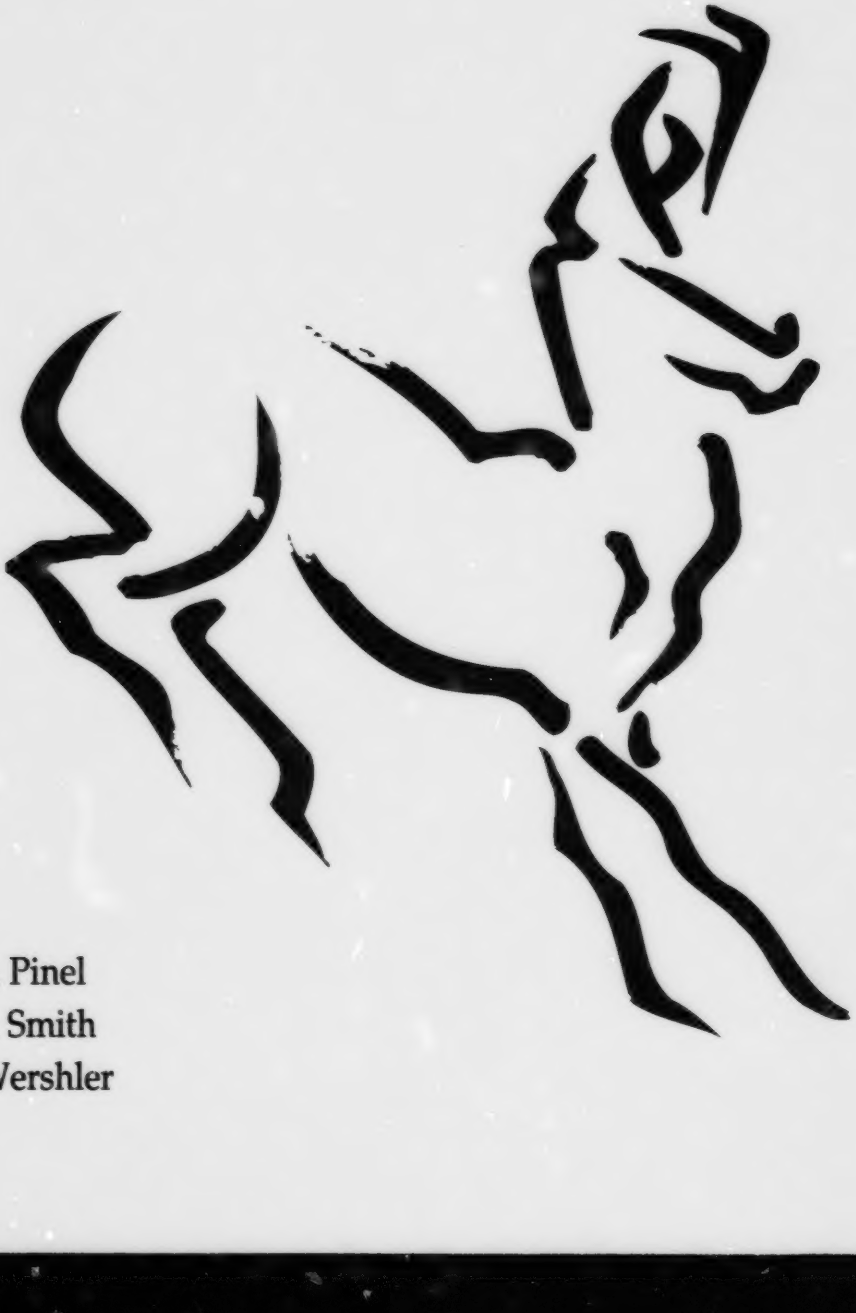
Alberta Birds, 1971 - 1980 Volume 1. Non-Passerines



Harold W. Pinel
Wayne W. Smith
Cleve R. Wershler

Provincial Museum of Alberta
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ALBERTA BIRDS, 1971 - 1980

Volume 1. Non-Passerines

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FOREWORD

Ornithology, better than any other science, bridges the gap between professionals and amateurs. Oologists, birders, bird-banders, Christmas count participants, and atlassers have contributed significantly to the discipline through countless hours of dedicated field work. Data accumulated from this work has been used to document breeding bird distributions, migration routes, winter ranges, nesting ecology, molt patterns and behavior. Often though, much data is lost because it is never recorded or made available to others.

This publication shows, once again, how amateur naturalists can contribute to the development of their science. The observations of birders throughout Alberta, compiled by Harold Pinel, Wayne Smith, and Cleve Wershler, fill an important void in the literature of Alberta Ornithology. Regional bird guides such as *The Birds of Alberta* (Salt and Salt 1976) and *The Birds of Canada* (Godfrey 1986) provide only general range information and little detail on change. The volume of observations documented in this Occasional Paper can be compared directly with *Alberta Birds 1961-70* by Sadler and Myres (1976) to reveal range contractions or expansions and variations in migration dates and abundance.

The Provincial Museum of Alberta is pleased to have the opportunity to publish these data; thus ensuring their availability to birders and ornithologists in the future.

W. Bruce McGillivray, Ph.D.
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LITERATURE CITED

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Sadler, T.S. and T. Myres. 1976. Alberta Birds 1961-70. Natural History Occasional Paper No. 1. Prov. Mus. of Alberta, Edmonton.

Salt, W.R. and J.R. Salt. 1976. The Birds of Alberta, 3rd edition. Hurtig Publ., Edmonton, AB.

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Herb Copland of the Manitoba Museum of Man and Nature kindly made the files of the Prairie Nest Record Scheme available.

Finally we acknowledge the many people who, through their interest in birds, have contributed data toward this work.

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INTRODUCTION

Historical Perspective

From 1956 to 1960, the *Alberta Bird Report* was published annually. These five, small, mimeographed publications were the joint efforts of the Calgary Bird Club and Edmonton Bird Club, and were edited by E. Derek Beacham, E. Otto Höhn and W. Ray Salt. These constituted the first systematic summaries of bird observations in Alberta. In general, records for only the southern half of Alberta were available, and in most years, the majority of the text was devoted to the Calgary area.

There was a long gap in the publication of a summary of Alberta bird records until Sadler and Myres (1976) wrote *Alberta Birds 1961-1970*, which was published as "Occasional Paper No. 1" by the Provincial Museum of Alberta. This publication, although more comprehensive than the previous annual reports, still had a definite bias towards the Calgary area.

During the late 1970's and early 1980's, discussions among the authors focused on the value of publishing the information accumulated on Alberta's avifauna for the 1970's. We believed that a publication similar to Sadler and Myres (1976) was essential in order to provide continuity to the documentation of ornithological records in Alberta.

Compared with the 1960's, there was an explosion of ornithological data on all fronts in the 1970's. There were more publications in regional, national and international journals; more local publications; more publications by government departments and private consulting companies; and an unprecedented gathering of data by amateur birdwatchers.

For this publication, reports from all sources were used. The files, publications and/or specimens of the Calgary Field Naturalists Society, Edmonton Natural History Club, Provincial Museum of Alberta, and Prairie Nest Record Scheme were reviewed. In addition, published journal articles, government publications, and private publications were examined.

The authors recognize that the data presented in this volume is incomplete. Observations not recorded in a central file or published in the literature would not be represented. In total, 557 persons are listed as contributing field observations that were used in this volume. It is largely the dedication and systematic record-keeping of these observers which made this publication possible.

The Birds of Alberta (Second Edition) by Salt and Wilk (1966) was used as an authority for the significance of all records from 1971 to 1975, while *The Birds of Alberta* - with their ranges in Saskatchewan and Manitoba (which we refer to as the third edition) by Salt and Salt (1976) was used for all records from 1976 to 1980. Sadler and Myres (1976) served as a model for our work.

The major focus of this volume is to summarize and analyze reports of Alberta birds for the decade. This includes: records of new species for the province, records of uncommon species, migratory information (including regional comparisons), range extensions, significant breeding and winter records, resightings of hypothetical species, population changes, and habitat preferences.

Authority for Records

The authors have employed objective criteria in the classification of observations. We have not attempted to judge the validity of sight records; however, in some cases we have provided comments which point out the unusual nature of an observation. The responsibility for sight records rests with the individual observers.

Documented, verified or confirmed records refer to those which have been substantiated with material evidence -- specimen, photograph or sound recording. Where possible, we have provided details on the type of documentary evidence. Hypothetical records, which have been bracketed in the text, are sight records of those species for which no material evidence exists for Alberta, or of those species which have become extirpated in Alberta.

BIRD HIGHLIGHTS OF THE DECADE

This section lists the species that showed interesting changes in status, abundance or distribution during the decade. Details can be found under the individual species acccount.

New Species

First confirmed reports of a species in Alberta, documented by a photograph, specimen or sound recording.

Yellow-billed Loon
Clark's Grebe
White-faced Ibis
Garganey
Black Scoter
Eskimo Curlew
Surfbird
Western Sandpiper
Sharp-tailed Sandpiper
Curlew Sandpiper
Iceland Gull
Black-legged Kittiwake
Ancient Murrelet
Black-chinned Hummingbird
Anna's Hummingbird
Red-breasted Sapsucker

First Nesting Records

First documented nesting record for the species in Alberta.

Red-throated Loon
Pacific Loon
Whooping Crane
Mountain Plover
Black-necked Stilt
Red-necked Phalarope
Northern Pygmy-Owl

Resightings of Hypotheticals

Additional unconfirmed reports of species already on the Alberta hypothetical list prior to 1971.

American Woodcock
Pomarine Jaeger
Ivory Gull

New Hypotheticals

Unconfirmed sightings of species not previously on the Alberta hypothetical list.

Green-backed Heron
Snowy Plover
Ross' Gull
Whip-poor-will

Declining Species

Species that have recently declined in numbers in Alberta.

Mallard
Northern Pintail
Ferruginous Hawk
Peregrine Falcon

Ring-necked Pheasant
Spruce Grouse
Sage Grouse
Sharp-tailed Grouse
Long-billed Curlew
Burrowing Owl
Short-eared Owl

Increasing Species

Species that have recently increased in numbers in Alberta.

American White Pelican
Double-crested Cormorant
White-faced Ibis
Trumpeter Swan
Canada Goose
Cinnamon Teal
Eurasian Wigeon
Canvasback
Redhead
Lesser Scaup
Whooping Crane
Herring Gull
Glaucous Gull
Barred Owl

Reported More Frequently

Species noted much more frequently in the 1970's than previously in Alberta, possibly because of greater activity by Alberta birders or because of increases in numbers.

Red-throated Loon
Pacific Loon
Wood Duck
American Black Duck
Oldsquaw
Hooded Merganser
Broad-winged Hawk
Wild Turkey
Yellow Rail
Virginia Rail
Piping Plover
Whimbrel
Hudsonian Godwit
Western Sandpiper
White-rumped Sandpiper
Dunlin
Stilt Sandpiper
Mew Gull
Caspian Tern
Black-billed Cuckoo
Northern Hawk Owl
Northern Pygmy-Owl
Great Gray Owl
Boreal Owl
Black Swift
Calliope Hummingbird

Extralimital

Species observed or found breeding outside of their known range or migration route. Breeding records are indicated by an asterisk.

Red-throated Loon*
Pacific Loon*
Common Loon*
Pied-billed Grebe*
Western Grebe*
American White Pelican*
Double-crested Cormorant*
Great Blue Heron*
Tundra Swan
Trumpeter Swan*
Greater White-fronted Goose
Snow Goose
Wood Duck
American Black Duck*
Cinnamon Teal*
Gadwall
Canvasback*
Redhead
Ring-necked Duck*
Harlequin Duck
Oldsquaw
Surf Scoter
White-winged Scoter*
Common Goldeneye*
Barrow's Goldeneye*
Bufflehead*

Hooded Merganser
Common Merganser*
Red-breasted Merganser*
Ruddy Duck
Turkey Vulture
Osprey
Bald Eagle*
Sharp-shinned Hawk
Cooper's Hawk*
Northern Goshawk*
Broad-winged Hawk*
Swainson's Hawk
Ferruginous Hawk
Rough-legged Hawk
Golden Eagle*
Prairie Falcon
Gray Partridge
Ring-necked Pheasant
Willow Ptarmigan*
Sage Grouse
Yellow Rail
Virginia Rail
Sandhill Crane*
Whooping Crane*
Lesser Golden-Plover
Semipalmated Plover
Piping Plover*
Black-necked Stilt*
American Avocet*
Greater Yellowlegs
Lesser Yellowlegs*
Willet
Upland Sandpiper
Whimbrel
Long-billed Curlew
Hudsonian Godwit
Ruddy Turnstone
Red Knot
Sanderling
Semipalmated Sandpiper
Least Sandpiper
Baird's Sandpiper
Pectoral Sandpiper
Dunlin
Buff-breasted Sandpiper
Short-billed Dowitcher
Wilson's Phalarope
Red-necked Phalarope*
Parasitic Jaeger
Franklin's Gull
Bonaparte's Gull
Mew Gull
Ring-billed Gull*
California Gull*
Herring Gull*
Common Tern
Arctic Tern
Forster's Tern*
Black Tern
Mourning Dove
Black-billed Cuckoo*
Snowy Owl
Northern Hawk Owl
Northern Pygmy-Owl*
Burrowing Owl*
Barred Owl*
Great Gray Owl*
Long-eared Owl*
Short-eared Owl
Boreal Owl
Northern Saw-whet Owl*
Common Poorwill
Black Swift
Ruby-throated Hummingbird
Calliope Hummingbird
Rufous Hummingbird
Yellow-bellied Sapsucker
Red-naped Sapsucker
Three-toed Woodpecker*
Pileated Woodpecker*

Unusual Sightings

Species recorded infrequently in Alberta.

Great Egret
Snowy Egret
Cattle Egret
White-faced Ibis
Brant
Eurasian Wigeon
Greater Scaup
Black Scoter
Chukar
Greater Prairie-Chicken
Northern Bobwhite
Mountain Plover
Black-necked Stilt
Wandering Tattler
Ruff
Red Phalarope
Long-tailed Jaeger
Thayer's Gull
Glaucous-winged Gull
Sabine's Gull
Caspian Tern
Arctic Tern
Band-tailed Pigeon
Yellow-billed Cuckoo

Screech-Owl (Eastern/Western)
Common Poorwill
Lewis' Woodpecker
Red-headed Woodpecker

Unusual Winter Records

First winter records of a species for Alberta (two asterisks), or records of species that rarely winter in Alberta.

Red-throated Loon**
Common Loon**
Yellow-billed Loon**
Pied-billed Grebe**
Horned Grebe**
Red-necked Grebe**
Eared Grebe
Western Grebe
Tundra Swan
Trumpeter Swan**
Ross' Goose
Canada Goose
Wood Duck
American Black Duck**
Blue-winged Teal**
Northern Shoveler**
Gadwall
American Wigeon
Canvasback
Redhead
Ring-necked Duck**
Lesser Scaup
Harlequin Duck**
Oldsquaw**
White-winged Scoter**
Hooded Merganser**
Red-breasted Merganser
Ruddy Duck**
Osprey**
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Swainson's Hawk**
Red-tailed Hawk**
American Kestrel
Peregrine Falcon
Greater Prairie-Chicken
American Coot**
Killdeer
Common Snipe
Glaucous Gull
Black-legged Kittiwake**
Mourning Dove
Screech-Owl (Eastern/Western)
Long-eared Owl
Belted Kingfisher

No Reports

Species with confirmed records for Alberta, but for which there are no reports for the decade.

Clark's Grebe
King Eider
Common Crane
Eskimo Curlew
Passenger Pigeon (extinct)

COSEWIC Species

Species listed during the decade by The Committee on the Status of Endangered Wildlife in Canada (COSEWIC).

Endangered = Any indigenous species whose existence in Canada is threatened with immediate extirpation or extinction throughout all or a significant portion of its range, owing to the actions of man.

Threatened = Any indigenous species that is likely to become endangered if the factors affecting its vulnerability do not become reversed.

Rare = Any indigenous species that because of its biological characteristics or because it occurs at the fringe of its range, or for some other reasons exists in low numbers or in very restricted areas in Canada, and so is vulnerable, but it is not a threatened species.

De-listed = A species previously designated by COSEWIC whose national status is no longer rare, threatened, endangered or extirpated.

American White Pelican - Threatened - 1976 to 1986 (de-listed 1987)
Trumpeter Swan - Rare - 1978
Ferruginous Hawk - Threatened - 1980
Peregrine Falcon *(F.p. anatum)* - Endangered - 1978
Peregrine Falcon *(F.p. tundrius)* - Threatened - 1978
Greater Prairie-Chicken - Endangered - 1978
Whooping Crane - Endangered - 1978
Eskimo Curlew - Endangered - 1978
Caspian Tern - Rare - 1978
Burrowing Owl - Threatened - 1979
Great Gray Owl - Rare - 1979

LOCATION GUIDE AND MAP

Refer to the map that follows this list for the location of any place mentioned in this book. This is done by reference to the Township, Range and Meridian. Township numbers are shown up the side of the map. Range numbers are shown along the bottom and certain base lines. Meridian numbers are shown along the top.

Locations of lakes are listed separately following the other place names. Both sub-sections are in alphabetical order.

A

Acme	T 29, R 25, W4
Airdrie	T 27, R 1, W5
Alcomdale	T 57, R 26, W4
Aldersyde	T 20, R 28, W4
Alix	T 39, R 23, W4
Alkali Creek	T 22, R 5, W4
Alsask	T 28, R 1, W4
Alsike	T 48, R 4, W5
Altario	T 34, R 2, W4
Amisk Creek	T 50, R 17, W4
Ardenode	T 25, R 25, W4
Ardrossan	T 53, R 22, W4
Armada	T 17, R 21, W4
Arrowwood	T 20, R 23, W4
Atmore	T 67, R 17, W4

B

Baintree	T 25, R 24, W4
Balzac	T 26, R 1, W5
Banff	T 25, R 12, W5
Barrhead	T 59, R 3, W5
Bashaw	T 42, R 21, W4
Bassano	T 21, R 18, W4
Battle Creek	T 8, R 1, W4
Bearberry	T 33, R 7, W5
Beaumont	T 50, R 24, W4
Beauvais Lake P.P.	T 5, R 1, W5
Beauvallon	T 54, R 10, W4
Beaver Creek	T 8, R 3, W4
Beaverlodge	T 72, R 10, W6
Beiseker	T 28, R 26, W4
Belvedere	T 58, R 3, W5
Bergen	T 32, R 5, W5
Beynon	T 27, R 20, W4
Big Hill Springs P.P.	T 26, R 3, W5
Big Knife P.P.	T 40, R 16, W4
Big Stone	T 25, R 9, W4
Big Valley	T 35, R 20, W4
Bindloss	T 22, R 2, W4
Birch Mountains	T 103, R 18, W4
Birch River Delta	T 110, R 14, W4
Black Diamond	T 20, R 2, W5
Blackfalds	T 39, R 27, W4
Blackie	T 19, R 27, W4
Bleriot Ferry	T 30, R 21, W4
Blue Rock Creek	T 19, R 6, W5
Bluffton	T 43, R 2, W5
Bob Creek	T 11, R 2, W5
Bon Accord	T 56, R 23, W4
Bonnyville	T 61, R 5, W4
Botha	T 38, R 18, W4
Bottrel	T 28, R 4, W5
Boulton Creek	T 19, R 9, W5
Bow City	T 17, R 17, W4
Bow Valley P.P.	T 24, R 8, W5
Bowden	T 34, R 1, W5
Bragg Creek	T 23, R 5, W5
Brant	T 18, R 26, W4
Brooks	T 18, R 14, W4
Brown-Lowrey Natural Area	T 21, R 4, W5
Brownvale	T 82, R 25, W5
Bruce	T 48, R 14, W4
Buffalo	T 21, R 5, W4
Burdett	T 10, R 12, W4
Busby	T 57, R 27, W4

C

Cadogan	T 39, R 4, W4
Cadomin	T 47, R 23, W5
Calgary	T 24, R 1, W5
Cambria	T 28, R 19, W4
Camp Creek	T 11, R 3, W5
Camrose	T 47, R 20, W4
Canmore	T 24, R 10, W5
Carbon	T 29, R 23, W4
Cardston	T 3, R 25, W4
Caribou Mountains	T 117, R 9, W5
Carmangay	T 13, R 23, W4
Caroline	T 36, R 6, W5
Carrot Creek	T 53, R 13, W5
Carseland	T 22, R 26, W4
Carstairs	T 30, R 1, W5

Castor	T 37, R 14, W4
Cayley	T 17, R 29, W4
Cereal	T 28, R 6, W4
Cessford	T 23, R 12, W4
Chain Lakes P.P.	T 14, R 2, W5
Chancellor	T 24, R 21, W4
Chauvin	T 43, R 1, W4
Cheadle	T 24, R 26, W4
Clearwater River	T 38, R 7, W5
Cluny	T 22, R 21, W4
Clyde	T 59, R 25, W4
Cochrane	T 26, R 4, W5
Cold Lake P.P.	T 63, R 1, W4
Comrey	T 2, R 6, W4
Condor	T 39, R 4, W5
Connemara	T 16, R 28, W4
Conrich	T 24, R 28, W4
Coronation	T 36, R 11, W4
Countess	T 21, R 17, W4
Coutts	T 1, R 15, W4
Cremona	T 30, R 4, W5
Crimson Lake P.P.	T 40, R 8, W5
Cross Lake P.P.	T 65, R 26, W4
Crossfield	T 28, R 1, W5
Crowsnest Pass	T 8, R 4, W5
Cypress Hills P.P.	T 8, R 2, W4
Cynthia	T 50, R 10, W5
Czar	T 40, R 6, W4

D

Dalemead	T 22, R 27, W4
Dalroy	T 25, R 27, W4
Dapp	T 62, R 27, W4
Darwell	T 54, R 5, W5
Daysland	T 45, R 16, W4
Debolt	T 72, R 1, W6
Del Bonita	T 1, R 21, W4
Delacour	T 25, R 28, W4
Deville	T 51, R 20, W4
Devon	T 50, R 26, W4
Devona	T 48, R 28, W5
De Winton	T 21, R 1, W5
Didsbury	T 31, R 1, W5
Dillberry Lake P.P.	T 41, R 1, W4
Dimsdale	T 71, R 7, W6
Dinosaur P.P.	T 21, R 11, W4
Dogpound	T 29, R 3, W5
Donnelly	T 78, R 20, W5
Dorothy	T 27, R 17, W4
Douglas Creek	T 23, R 14, W4
Dovercourt	T 38, R 7, W5
Drayton Valley	T 49, R 7, W5
Drumheller	T 29, R 20, W4
Dry Island Buffalo Jump P.P.	T 34, R 21, W4
Duchess	T 20, R 14, W4
Duffield	T 52, R 3, W5
Dunstable	T 57, R 2, W5
Dutch Creek	T 11, R 4, W5

E

East Coulee	T 27, R 18, W4
Edmonton	T 53, R 24, W4
Edson	T 53, R 17, W5
Elbow River	T 22, R 6, W5
Elbow River headwaters	T 20, R 7, W5
Elk Creek	T 35, R 12, W5
Elk Pass	T 19, R 8, W5
Elk Point	T 57, R 7, W4
Elkwater	T 8, R 3, W4
Ellerslie	T 51, R 24, W4
Elnora	T 35, R 23, W4
Empress	T 23, R 1, W4
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Entrance	T 51, R 26, W5
Erskine	T 39, R 20, W4
Etzikom	T 6, R 9, W4
Evans Thomas Creek	T 22, R 9, W5
Evansburg	T 53, R 7, W5
Exshaw	T 24, R 9, W5

F

Fawcett	T 64, R 1, W5
Finnegan	T 25, R 15, W4
Firebag River	T 101, R 9, W4
Flatbush	T 66, R 2, W5
Foremost	T 6, R 11, W4
Forestburg	T 42, R 15, W4
Fort Chipewyan	T 112, R 7, W4
Fort MacKay	T 94, R 11, W4
Fort Macleod	T 9, R 26, W4
Fort McMurray	T 89, R 9, W4
Fort Saskatchewan	T 54, R 22, W4

G

Gadsby	T 38, R 17, W4
Galahad	T 41, R 14, W4
Gayford	T 26, R 25, W4
Gem	T 23, R 16, W4
Gladys	T 20, R 27, W4
Gleichen	T 22, R 23, W4
Glenevis	T 55, R 4, W5
Goat Creek	T 24, R 11, W5
Gorge Creek	T 19, R 5, W5
Graburn Creek	T 8, R 1, W4
Grande Cache	T 56, R 8, W6

Grande Prairie	T 71, R 6, W6
Grimshaw	T 83, R 23, W5
Grovedale	T 70, R 6, W6
Gwynne	T 46, R 23, W4

H

Hand Hills	T 28, R 16, W4
Hanna	T 31, R 14, W4
Hartell	T 19, R 2, W5
Hat Mountain	T 61, R 11, W6
Hay Lakes	T 48, R 21, W4
Hays	T 13, R 14, W4
Herronton	T 19, R 25, W4
High Level	T 110, R 19, W5
High River	T 19, R 28, W4
Highridge	T 58, R 1, W5
Highwood Pass	T 19, R 8, W5
Hilda	T 17, R 1, W4
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Horn Mountain	T 60, R 13, W6
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Hutton	T 24, R 14, W4
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I

Indian Grave Campground	T 15, R 3, W5
Indus	T 22, R 28, W4
Innisfail	T 35, R 28, W4
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Irvine	T 11, R 2, W4

J

James River Bridge	T 34, R 5, W5
Janet	T 23, R 28, W4
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Josephburg	T 55, R 21, W4

K

Kananaskis Country	T 20, R 6, W5
Kananaskis P.P. = Peter Lougheed P.P.	T 20, R 9, W5
Kananaskis River	T 21, R 9, W5
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Lacombe	T 40, R 26, W4
Lamont	T 55, R 19, W4
Langdon	T 23, R 27, W4
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Lethbridge	T 8, R 21, W4
Lindbergh	T 56, R 5, W4
Lindbrook	T 51, R 19, W4
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Little Kakwa River	T 58, R 13, W6
Little Smoky	T 66, R 22, W5
Long Lake P.P.	T 63, R 19, W4
Longview	T 18, R 2, W5
Looma	T 50, R 23, W4
Lost River	T 1, R 4, W4
Lousana	T 36, R 23, W4
Lundbreck	T 7, R 2, W5
Lunnford	T 59, R 3, W5
Lusk Creek	T 24, R 8, W5
Lyalta	T 25, R 26, W4

M

MacKay	T 54, R 11, W5
Madden	T 28, R 2, W5
Majorville	T 19, R 20, W4
Manning	T 91, R 23, W5
Mannville	T 50, R 9, W4
Manyberries	T 5, R 6, W4
Mayerthorpe	T 57, R 8, W5
Mazeppa	T 19, R 28, W4
Meander River	T 116, R 22, W5
Medicine Hat	T 12, R 5, W4
Medicine Lodge Coulee	T 8, R 4, W4
Milk River	T 2, R 16, W4
Milk River Canyon	T 1, R 6, W4
Millarville	T 21, R 3, W5
Millicent	T 20, R 13, W4
Milo	T 18, R 21, W4
Minburn	T 50, R 10, W4
Mirror	T 40, R 22, W4

Monarch	T 10, R 23, W4
Monitor	T 35, R 4, W4
Morinville	T 55, R 25, W4
Morley	T 25, R 7, W5
Mortlach, Sask.	T 17, R 1, W3
Mossleigh	T 20, R 24, W4
Mount Robson B.C.	T 46, R 7, W6
Mountain Rapids	T 126, R 11, W4
Mountain View	T 2, R 27, W4
Mundare	T 53, R 16, W4
Munson Ferry	T 29, R 21, W4
Muskeg River	T 57, R 5, W6

N

Namao	T 55, R 24, W4
Nanton	T 16, R 28, W4
Neapolis	T 31, R 28, W4
Neutral Hills	T 37, R 6, W4
Nevis	T 39, R 22, W4
New Dayton	T 5, R 18, W4
New Norway	T 45, R 21, W4
New Sarepta	T 49, R 22, W4
Nier	T 28, R 2, W5
Nightingale	T 25, R 24, W4
Nisku	T 50, R 25, W4
Niton	T 54, R 12, W5
Nojack	T 53, R 11, W5
Nordegg	T 40, R 15, W5
Norfolk	T 24, R 27, W4
Nose Mountain	T 64, R 11, W6
Notikewin River	T 91, R 3, W6

O

Okotoks	T 24, R 29, W4
Oldman River	T 10, R 2, W5
Onefour	T 2, R 4, W4
Orion	T 6, R 6, W4
Oyen	T 27, R 4, W4

P

Paddle Prairie	T 103, R 21, W5
Pageant	T 18, R 21, W4
Panther River	T 31, R 10, W5
Parkland	T 15, R 27, W4
Patricia	T 20, R 13, W4
Peace River	T 83, R 21, W5
Peace-Athabasca Delta	T 111, R 8, W4
Peers	T 54, R 14, W5
Pekisko	T 17, R 2, W5
Pemukan	T 35, R 4, W4
Pigeon Mountain	T 24, R 9, W5
Pincher Creek	T 6, R 30, W4
Pinhorn Grazing Reserve	T 1, R 6, W4
Plateau Mountain	T 15, R 4, W5
Pocaterra Creek	T 21, R 9, W5
Police Coulee	T 1, R 13, W4
Police Outpost P.P.	T 1, R 26, W4
Pollockville	T 25, R 12, W4
Porcupine Hills	T 11, R 1, W5
Priddis	T 22, R 3, W5
Provost	T 39, R 2, W4
Pulteney	T 13, R 27, W4

R

Ram Mountain	T 35, R 14, W5
Raven	T 36, R 4, W5
Raymond	T 6, R 20, W4
Red Deer	T 38, R 27, W4
Red Earth Creek	T 87, R 8, W5
Redcliff	T 13, R 6, W4
Redwater	T 57, R 21, W4
Ribstone Creek	T 41, R 6, W4
Ricinus	T 36, R 7, W5
Rochester	T 62, R 23, W4
Rocky Mountain House	T 39, R 7, W5
Rockyford	T 26, R 23, W4
Ronalane	T 13, R 12, W4
Rosebud	T 27, R 21, W4
Rosedale	T 28, R 19, W4
Round Hill	T 48, R 19, W4
Rumsey	T 33, R 21, W4
Rycroft	T 78, R 5, W6
Ryley	T 50, R 17, W4

S

Sage Creek	T 2, R 3, W4
Sangudo	T 56, R 7, W5
St. Albert	T 54, R 25, W4
St. Michael	T 56, R 18, W4
Saskatoon Island P.P.	T 72, R 8, W6
Sass River, N.W.T.	T 129, R 19, W4
Scandia	T 15, R 15, W4
Scapa	T 33, R 15, W4
Schuler	T 16, R 1, W4
Scotfield	T 30, R 10, W4
Sedgewick	T 44, R 12, W4
Seebe	T 24, R 8, W5
Sexsmith	T 73, R 6, W6
Sharples	T 29, R 22, W4
Sheep River Ranger Station	T 19, R 5, W5
Sheerness	T 29, R 12, W4

Shepard	T 23, R 28, W4
Sheppard Creek	T 16, R 2, W5
Sherwood Park	T 52, R 23, W4
Sir Winston Churchill P.P.	T 67, R 13, W4
Skiff	T 6, R 14, W4
Slave River	T 120, R 9, W4
Spondin	T 33, R 12, W4
Springbank	T 25, R 2, W5
Spruce Grove	T 53, R 27, W4
Standard	T 25, R 22, W4
Stavely	T 14, R 27, W4
Stettler	T 39, R 19, W4
Stirling	T 6, R 19, W4
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Strathmore	T 24, R 25, W4
Suffield (C.F.B.)	T 17, R 6, W4
Sundre	T 33, R 5, W4
Swalwell	T 30, R 24, W4
Swan Hills	T 66, R 13, W5
Syncrude lease	T 92, R 10, W4

T

Talbot	T 38, R 9, W4
Taylor	T 27, R 20, W4
Thickwood Hills	T 88, R 15, W4
Tillebrook P.P.	T 18, R 14, W4
Tilley	T 17, R 12, W4
Tofield	T 51, R 19, W4
Tolman Bridge	T 33, R 22, W4
Torrens River	T 61, R 13, W6
Turner Valley	T 20, R 3, W5
Two Hills	T 54, R 12, W4

V

Vale	T 15, R 3, W4
Valleyview	T 70, R 22, W5
Vegreville	T 52, R 14, W4
Vermilion	T 50, R 5, W4
Vermilion P.P.	T 50, R 7, W4
Veteran	T 35, R 8, W4
Viking	T 47, R 13, W4
Vulcan	T 17, R 24, W4

W

Wabasca River	T 108, R 9, W5
Wagner Bog	T 53, R 2, W5
Wainwright	T 44, R 6, W4
Wandering River	T 72, R 16, W4
Warburg	T 48, R 3, W5
Wardlow	T 22, R 12, W4
Water Valley	T 29, R 5, W5
Waterton	T 1, R 30, W4
Wayne	T 28, R 19, W4
Welling	T 6, R 21, W4
Wembley	T 71, R 8, W6
West Castle River	T 4, R 3, W5
Westlock	T 60, R 26, W4
Westward Ho	T 32, R 4, W5
Whaleback Ridge	T 12, R 2, W5
Whitecourt	T 59, R 12, W5
Whitford	T 56, R 15, W4
Wildhorse	T 1, R 2, W4
Wildwood	T 53, R 9, W5
Willmore Wilderness	T 54, R 8, W6
Willow Creek	T 51, R 3, W6
Willow Creek	T 8, R 3, W4
Winagami Lake P.P.	T 77, R 18, W5
Winterburn	T 52, R 25, W4
Wintering Hills	T 26, R 19, W4
Wrentham	T 6, R 17, W4
Writing-on-Stone P.P.	T 1, R 13, W4

Y

Yamnuska	T 25, R 9, W5
Yarrow Creek	T 3, R 1, W5
Youngstown	T 29, R 9, W4

Z

Zama City	T 117, R 5, W

LAKES:

A

Athabasca	T 115, R 3, W4

B

Barrier	T 24, R 8, W5
Bear	T 72, R 7, W6
Beauvais	T 5, R 1, W5
Beaver Mines	T 5, R 3, W5
Beaverdam	T 1, R 27, W4
Beaverhill	T 51, R 18, W4
Big	T 53, R 26, W4
Big Island	T 52, R 22, W4
Birch	T 85, R 3, W4
Bistcho	T 124, R 5, W6
Bittern	T 47, R 22, W4

Blizzard	T 21, R 27, W4
Blue	T 52, R 26, W5
Bocquene	T 120, R 7, W4
Brazeau Reservoir	T 46, R 11, W
Bruce	T 26, R 26, W4
Buffalo	T 40, R 20, W4
Burns	T 31, R 28, W4
Burnstick	T 35, R 7, W5
Burstall	T 119, R 2, W4

C

Calling	T 72, R 22, W4
Cardinal	T 83, R 24, W5
Carson	T 61, R 12, W5
Chain	T 33, R 16, W4
Chappice	T 14, R 3, W4
Chestermere	T 24, R 28, W4
Chilver	T 24, R 8, W5
Chip	T 54, R 10, W5
Claire	T 110, R 13, W4
Clairmont	T 72, R 5, W6
Cochrane	T 26, R 4, W5
Cold	T 64, R 1, W4
Coleman	T 28, R 14, W4
Cooking	T 51, R 21, W4
Cornwall	T 122, R 4, W4
Crow Indian	T 5, R 13, W4
Crowsnest	T 8, R 5, W5

D

Deadhorse	T 24, R 19, W4
Deep	T 72, R 7, W6
Dickson	T 75, R 13, W6
Douglas	T 32, R 2, W4
Dowling	T 32, R 15, W4

E

Eagle	T 23, R 24, W4
Eden	T 53, R 2, W5
Egg	T 49, R 23, W4
Elinor	T 65, R 11, W4
Elkwater	T 8, R 3, W4
Eva	T 114, R 7, W5

F

Fawcett	T 73, R 26, W4
Fickle	T 51, R 19, W5
Fishtail	T 96, R 9, W4
Frank	T 18, R 27, W4

G

Ghost Reservoir	T 26, R 6, W5
Glenbow	T 25, R 3, W5
Golden	T 87, R 15, W5
Gooseberry	T 36, R 6, W4
Goosequill	T 36, R 23, W4
Grassy	T 67, R 24, W5
Grassy Island	T 33, R 3, W4
Gregoire	T 86, R 8, W4
Gull	T 41, R 1, W5
Gypsy	T 85, R 2, W4

H

Handhills	T 29, R 16, W4
Hastings	T 51, R 20, W4
Hay-Zama	T 113, R 6, W6
Hermit	T 72, R 7, W6
Horseshoe	T 92, R 10, W4
Hummock	T 35, R 23, W4

I

Iosegun	T 63, R 19, W5
Isle	T 53, R 5, W5

J

Jackfish	T 52, R 2, W5
Joseph	T 50, R 22, W4

K

Kananaskis	T 19, R 9, W5
Kearl	T 95, R 8, W4
Keho	T 11, R 23, W4
Kiever's	T 32, R 27, W4
Kirkpatrick	T 33, R 10, W4

L

Lac des Arcs	T 24, R 9, W5
Lac La Biche	T 67, R 13, W4
Lac La Nonne	T 57, R 3, W5
Lac Ste. Anne	T 54, R 3, W5
Leland	T 124, R 6, W4
Lesser Slave	T 74, R 11, W5
Lillabo	T 114, R 1, W4
Little Bow	T 14, R 20, W4
Little Fish	T 28, R 16, W4
Lost	T 14, R 17, W4
Loutit	T 115, R 5, W4

Lower Kananaskis	T 19, R 9, W5
Lower Therien	T 57, R 10, W4

M

Mann	T 60, R 11, W4
Many Island	T 14, R 1, W4
Margaret	T 114, R 8, W5
Mariana	T 81, R 13, W4
Marie	T 65, R 2, W4
Mattoyekiu	T 25, R 18, W4
McClelland	T 98, R 9, W4
McLelland	T 123, R 8, W4
McGregor	T 18, R 21, W4
Mildred	T 93, R 10, W4
Milk River Ridge Reservoir	T 5, R 20, W4
Ministik	T 50, R 21, W4
Miquelon	T 49, R 20, W4
Moonshine	T 79, R 8, W6
Murray	T 10, R 8, W4
Musreau	T 64, R 5, W6

N

Namaka	T 23, R 24, W4
Namur	T 97, R 17, W4
Newell	T 17, R 15, W4

P

Paine	T 2, R 28, W4
Pakowki	T 5, R 8, W4
Pelican	T 70, R 25, W5
Pigeon	T 47, R 1, W5
Pinehurst	T 65, R 10, W4
Pitchimi	T 115, R 5, W5
Plover	T 29, R 10, W4
Primrose	T 67, R 1, W4

R

Reesor	T 8, R 1, W4
Richardson	T 108, R 7, W4
Rock	T 52, R 2, W6
Rock Island	T 117, R 7, W5
Rolling Hills	T 16, R 14, W4
Ross	T 2, R 22, W4
Ruth	T 92, R 10, W4

S

Sam	T 14, R 2, W4
San Francisco	T 19, R 16, W4
St. Agnes	T 123, R 2, W4
St. Mary's Reservoir	T 4, R 24, W4
Saskatoon	T 72, R 8, W6
Shank's Lake	T 1, R 21, W4
Sherburne	T 9, R 13, W4
Sieu	T 25, R 18, W4
Smoky	T 59, R 18, W4
Sounding	T 37, R 4, W4
Spray	T 23, R 10, W5
Spruce Coulee Reservoir	T 8, R 2, W4
Stirling	T 7, R 19, W4
Stobart	T 22, R 23, W4
Sturgeon	T 70, R 23, W5
Sullivan	T 35, R 14, W4
Sundance Cooling Pond	T 52, R 4, W5
Swift	T 42, R 6, W4
Sylvan	T 39, R 2, W5

T

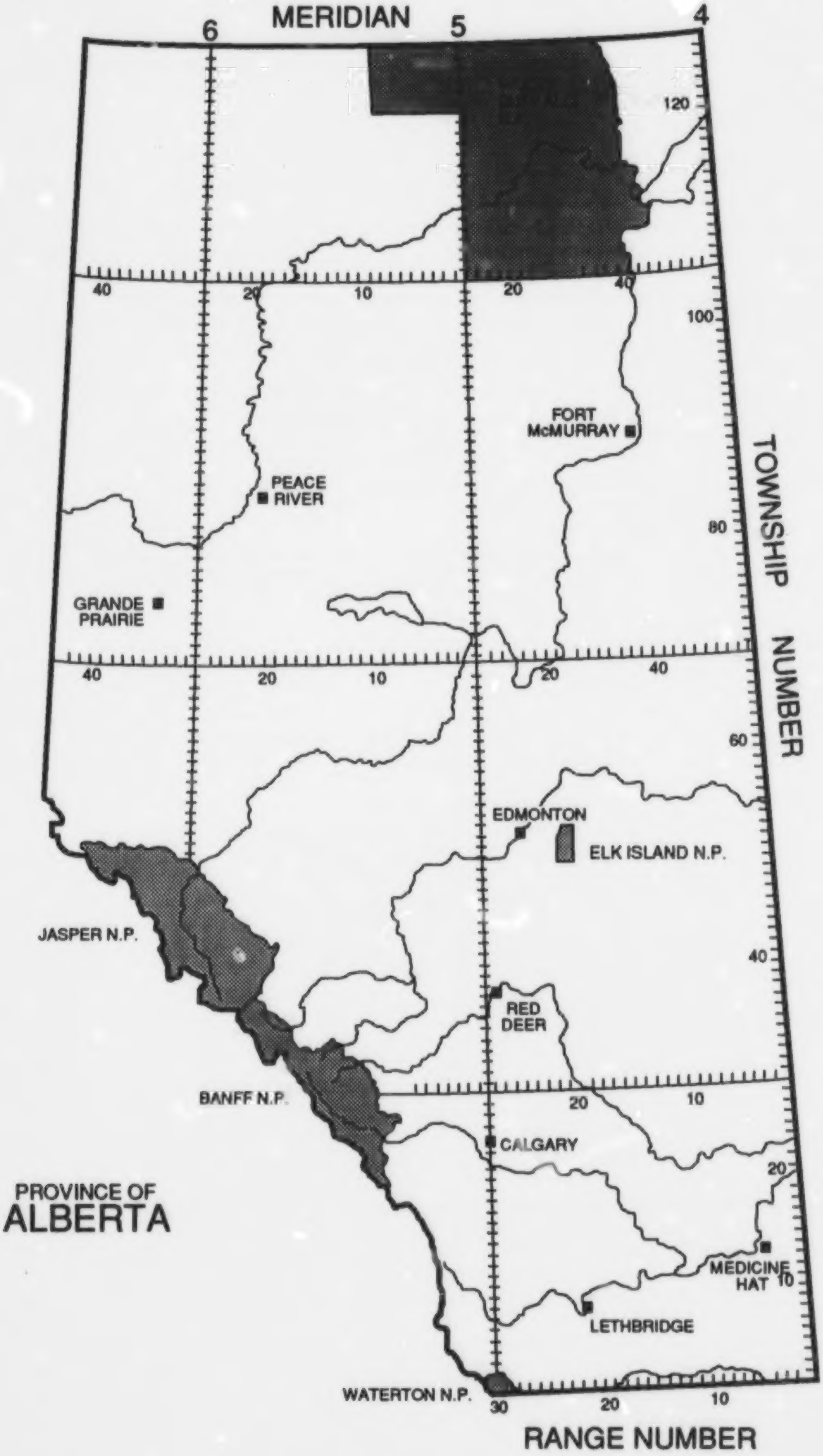
Thunder	T 59, R 5, W5
Touchwood	T 67, R 10, W4
Travers Reservoir	T 14, R 21, W4
Two Lakes	T 62, R 12, W6
Tyrrell	T 5, R 17, W4

U

Upper Kananaskis	T 19, R 9, W5
Utikuma	T 79, R 10, W5

W

Wabamun	T 53, R 4, W5
Wadlin	T 101, R 10, W5
Wentzel	T 115, R 3, W5
Whitford	T 56, R 16, W4
Winagami	T 76, R 18, W5
Wolf	T 66, R 7, W4


MERIDIAN
6
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FORT McMURRAY
PEACE RIVER
80
GRANDE PRAIRIE
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20
40
60
EDMONTON
ELK ISLAND N.P.
JASPER N.P.
40
RED DEER
BANFF N.P.
20
10
CALGARY
20
PROVINCE OF ALBERTA
MEDICINE HAT
10
LETHBRIDGE
WATERTON N.P.
30
20
10
TOWNSHIP NUMBER
RANGE NUMBER

SYMBOLS USED IN THE TEXT

Seasonal Occurrence

W - winter record
S - spring migration
F - fall migration
    a - first record of the season
    b - highest individual numbers recorded during the season
    c - last report of the season
B - summer or nesting record of interest within a species' usual range
Mp - midsummer dispersal or passage movement

Extralimital or Unusual Records

E - extralimital (outside the usual range)
    b - breeding or summer record
    m - migration period record
    v - record of a vagrant species reported irregularly in Alberta
    w - winter record

Miscellaneous

[ ] - hypothetical species or records

SPECIES RECORDS AND SUMMARIES, 1971 - 1980

FAMILY: GAVIIDAE

Red-throated Loon *(Gavia stellata)*

There are many more reports of this species for the 1970's than for the previous decade. The vast majority of migration records are for the fall, and they suggest that the fall passage through Alberta may occur over an extended period of time. Salt & Salt (1976) state that fall birds are recorded as far south as Edmonton, but observations during this decade extend the known southern limit to the Waterton Lakes National Park area.

The only winter record for the province was in 1974. The first authenticated breeding record for Alberta was in 1976.

1972. Em - 1, Sept. 4, Cold Lake - WWS, CRW
1973. Eb - 3, June 9, Margaret Lake, Caribou Mountains - Höhn & Burns (1975)
 - 1, June 26-28, Rock Island Lake, Caribou Mountains - Höhn & Burns (1975)
 Em - 1, Oct. 28, Barrier Lake - PJS (Pinel & Butot 1978)
 - 2, Oct. 28, Irricana - RUB (Pinel & Butot 1978)
1974. Eb - 6, July 16-19, Rock Island Lake, Caribou Mountains - Höhn & Burns (1975)
 Ew - 1, Dec. 31, 1974 to Jan. 2, 1975, Lake Minnewanka, Banff N.P. - RSD, BIG, DIM, MIM
1975. Eb - 1 pair, June 18-22 and July 24, near Margaret Lake, Caribou Mountains - Höhn & Burns (1976)
1976. Em - 4, May 10, Ft. McMurray; the date for this observation may actually be May 10, 1977 -- contradictory information was provided in two different references - Gulley (1979, 1983a)
 Eb - 1, June 27, Lake Athabasca - EOH
 - 1 nest with 1 egg plus an empty nest and another pair, June 28, north of Margaret Lake, Caribou Mountains - Höhn (1976a)
 - 1 ad., Aug. 19 & 20, Caribou Mountains - PCA, PEL
1977. Eb - "some", July 23-26, Rock Island Lake - Höhn & Weseloh (1978)
 - 9, July 26-29, Margaret Lake and area - Höhn & Weseloh (1978)
1978. Em - 2, Sept. 26, Ft. McMurray - BRW
1979. Em - 1, May 2, Calgary - OLD
 - 1, Oct. 6, Spray Lakes - CLH, DES
 - 1, Nov. 8, Beaverhill Lake - DID
1980. Em - 2, Oct. 26, Knights Lake, Waterton Lakes N.P. - TEH
 - 1, Nov. 2, Calgary - Steeves (1981)

Pacific Loon *(Gavia pacifica)*

The number of observations of this species increased over the previous decade. Sadler & Myres (1976) state "this species now seems to be a regular fall migrant recorded in small numbers." The observations recorded below for the 1970's illustrate approximately an equal number of spring and fall reports. Except for the 1977 Morley observation, all migration records were from the mountains and from central to northern Alberta. This contrasts with Sadler & Myres (1976) wherein the observations listed were mainly from southern Alberta.

All reports were of one or two birds except for a spring passage report of 40 birds in 1980. Five out of six fall passage observations for the decade were in October.

The following records were not included in Sadler & Myres (1976):
1961. Ew - 1 adult male, Jan. 2, Iosegun Lake - S. C. Holmes (U. of A. specimen)
1966. Em - 1 immature, Oct. 27, Calgary - G. Bielby (PMA specimen)
1970. Em - 1 immature male, fall, Calgary - PMA specimen

The first documented breeding of this species in Alberta was in 1971 in the Canadian Shield.

1971. Em - 1, May 30, Cold Lake - BIG, GEK, COS
Eb - 1 adult male, June 18, Carson Lake - JOW (U. of A. specimen)
- 2 adults with 1 downy young, July 8, at small lake east of Leland Lake - Höhn (1972b)
1972. Em - 2, Oct. 9, Jasper, N.P. - SYB (Houston 1973a)
1975. Em - 1, May 12, Calling Lake - Nordstrom & Gregg (1975)
1976. Eb - 2 calling, July 1, Margaret Lake, Caribou Mountains - Höhn (1976)
- 2 adults, Aug. 9, Ft. Chipewyan - RAE
1977. Em - 1, Oct. 5, Ft. McMurray area - Gulley (1983a)
- 1, Oct. 8, Morley - BAC, DUC (Collister 1977; Pinel & Butot 1978)
1979. Em - 1, May 17, Miquelon Lake - RUB
- 1, May 17, Pigeon Lake - RAS (Gollop 1979a)
- 1, Oct. 28, Lake Minnewanka, Banff N.P. - Holroyd & Van Tighem (1983)
1980. Em - 40, June 3 (flock departed the next day), Pyramid Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1 adult, Sept. 12, Knights Lake, Waterton Lakes N.P. - TEH
- 2, Oct. 11, Lake Minnewanka, Banff N.P. - Steeves (1981)

Common Loon *(Gavia immer)*

This species generally arrives in mid-April, with spring migration peaking in late April and early May. The passage in the fall is more extended with birds lingering in southern Alberta until freeze-up, from late October to late November. During this decade the first winter records for the province were in 1971/1972 at Calgary, in 1978 at Wabamun Lake and in 1979 at Wabamun Lake.

The breeding range depicted by Salt & Salt (1976) includes the foothills southwest of Calgary. The authors know of only one nesting record for this region during the 1970's, while Sharp (1973) did not record nesting for Waterton Lakes National Park. In several years, adults were noted south of the breeding range during the late spring and summer on reservoirs and natural lakes in the grassland region and in the Cypress Hills. Bayer & Lang (1974) state that this species nested on Lake Newell for many years. In 1972 an adult was observed with 2 downy young. In 1973 a pair raised one young.

Vermeer (1973a & b) studied Common Loons in east-central Alberta. He found that the large majority nested on islands. Egg-laying was initiated from the second last week of May until the third week in June. Seventy percent of the eggs hatched and 0.4 young were calculated to fledge per breeding pair. Eggshell thickness appeared to be unaffected by low DDE residue levels in eggs. Considerable mortality of adult loons resulted from commercial fishing activities.

1971. Sa - 1, April 24, Calgary - ANM
Sc - 1, May 23, Keoma - CHG, ISS
Sc/Eb - 2 calling, May 28, Elkwater Lake - CRW
B - 1 pair & 2 juveniles, June 27, near Seebe - RUJ
Fa - 1, Aug. 21, Calgary - RIP
Fb - 5, Oct. 18, Calgary - RIP
Fc - 1, Dec. 4, Calgary - HAV
Ew - 1, Dec. 27, Calgary - CFNS
1972. Ew - 1, Jan. 8 & 10, Calgary - GEA, WEB, BAD
Sa - 1, April 20, Calgary - WWS, CAW
Sc - 2, May 26, Chestermere Lake - DVW
Fa - 1, Sept. 9, Alsike - NGK
Fb - 4, Oct. 7, Rolling Hills Lake - ADB, CDB
1973. Sa - 1, April 21, Irricana - BIL, VGL
- 1, April 21, Frank Lake - NGK
Sc - 1, June 3, Calgary - BIL
Eb - 2, June 30, Crowsnest Lake - GWG, LOG
- 3, July 1, Elkwater Lake - GWG, LOG
- 1, July 13, Knights Lakes, Waterton Lakes N.P. - ROH
Fb - 8, Oct. 5, Talbot Lake, Jasper N.P. - BEB, GEB
Fc - 1, Oct. 27, Astotin Lake, Elk Island N.P. - DEG, GCG
- 1, Oct. 27, Cooking Lake - LOG
1974. Sa/Sb - 7, April 20, Little Bow Lake - NGK
Sc - 1, May 19, Calgary - HWP
Eb - 1, June 16, Calgary - RUB
- 2, June 28, Lake Newell - BCM, RIP
- 2, July 18, Little Fish Lake - WWS
Fa - 3, Aug. 26, Beaver Mines Lake - GRW
Fc - 1, Nov. 3, McGregor Lake - EWB, RUB
1975. Sa - 1, April 23, Knights Lake, Waterton Lakes N.P. - KEB
- 2, April 27, Mildred Lake - Ward et al. (1976)
Sa/Sb - 26, April 27, Wabamun Lake - JIW
Eb - 1, June 22, Namaka Lake - BIL
- 1, July 19, McGregor Lake - RUB
Fc - 1, Nov. 17, Calgary - HWP
1976. Sa - 1, April 18, Eagle Lake - RUB
- May 1, Ft. MacKay area - Francis & Lumbis (1979)
Sb - 15, April 28, Middle Lake, Waterton Lakes N.P. - KEB
Eb - 1, June 26, Chestermere Lake - HWP
Fc - 1, Nov. 2, Wembley - YVM
- 4, Nov. 2, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
- 1, Nov. 6, Calgary - DPD
1977. Sa - April 19, Banff N.P. - Holroyd & Gartshore (1978)
- 3, April 24, Calgary - ANS
- April 25, Ft. McMurray area - Gulley (1979)
Eb - 1, June 12, Little Bow Lake - HWP, JOR
- 1, June 26, Buffalo Lake - HWP
- 1 pair with young, June 28, Swift Lake - CAW
- 2, Aug. 27, Calgary - MSB, RUB
Fc - 2, Nov. 20, Calgary - ADS, DOS
1978. Sa - 1, April 15, St. Albert - PED
B - 1 adult & 1 young, early Aug., 8 km north of Turner Valley - Butot (1978d)
Fb - 23, Oct. 22, Ghost Reservoir - JMP

- 11, Oct. 29, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - Nov. 9, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Ew - 1, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. Sa - April 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, April 20, Calgary - DUC
Sb - 8, April 26, Calgary - CLH
- 19, May 9, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Sc - 1, May 21, Little Fish Lake - RUB
Fa - 2, Aug. 25, Calgary - DUC
Fc - 2, Nov. 4, Calgary - ANS
Ew - 1, Dec. 23, Wabamun Lake - JIF, CYH, JIL
1980. Sa - 1, May 10, Travers Reservoir - HWP
Eb - 2, May 30, Reesor Lake - CRW
Fc - 1, Nov. 23, Calgary - ANS

Yellow-billed Loon *(Gavia adamsii)*

The first confirmed observation of this species for Alberta was of a bird on Glenmore Reservoir in Calgary from November 2-5, 1975. Previous unconfirmed sightings for the decade include single birds at Lesser Slave Lake and Upper Kananaskis Lake. Subsequent substantiated sightings are reported below. The 1979 observations for Calgary were at different sites: the November observations were at Glenmore Reservoir and the December observation was on the Bow River.

In all loon species, immature plumage is held through the first winter and first summer. The observation of an immature bird over approximately a two-month period in the summer of 1975 is therefore noteworthy. This is the only spring report of a second year bird for Alberta of which the authors are aware. This 1975 record is also interesting as REG reported a Yellow-billed Loon on the same day, June 18, from Moose Lake, Mount Robson Provincial Park, British Columbia, 60 km west of the Alberta border.

1972. Ev - 1 adult in summer plumage, June 22, Lesser Slave Lake - Griffiths (1973)
1975. Ev - 1 immature, June 18 to Aug. 25, Upper Kananaskis Lake - Salt (1976)
Ev - 1, Oct. 27, Calgary - WWS
- 1, Nov. 2-5, Calgary - Sherrington (1976), Pinel & Butot (1978)
1976. Ev/Ew - 1, Nov. 22, 1976 to Jan. 12, 1977, Calgary - Pinel & Butot (1978)
1979. Ev - 1, Nov. 4-18, Calgary - BOF, ANS, JAS, ALW
- 1, Dec. 2, Calgary - RUB, WIM

FAMILY: PODICIPEDIDAE

Pied-billed Grebe *(Podilymbus podiceps)*

The first spring arrivals were usually recorded between April 22 and April 29. The fall migration occurs over an extended period, with birds lingering into late October and November. There are four winter records for the decade, including the first for Alberta.

The breeding range shown in the third edition of *The Birds of Alberta* is more extensive in the south and north than in the second edition. Although permanent marshes created by irrigation in the southern grasslands have made this species more widespread, it is still local within that region. It is the authors' opinion that this species is also absent from large areas of the far north. It has been found breeding rarely in the mountains at Banff and Jasper National Parks.

1971. Sa - 2, May 8, Cochrane - SEA, KSC, RIP
Fc - 12, Sept. 30, Frank Lake - CDB, RDB
1972. Sa - 1, April 25, Calgary - DVW
Eb - nesting at Bow Valley P.P. - Wallis & Wershler (1972b)
- 1 adult & 4 downy young, July 15, De Winton - VGL, RIP (Kondla & Pinel 1973b)
- 5+ adults & 3 broods, July 22, southeast of Drumheller - CAW
- 1 family of 6+, Aug. 13, Rosebud - WWS, CAW, CRW
Eb/Fb - 7 immatures, Aug. 30, Maskinonge, Waterton Lakes N.P. - Sharp (1973)
Fc - 1, Oct. 22, Bow Valley P.P. - WWS
Ew - 1, Dec. 31, Wabamun Lake - LOG
1973. Sa - 1, April 26, Frank Lake - BIL, VGL
Eb - 1, June 9, Jenner - GWG, LOG
- 1, June 30, Pincher Creek - GWG, LOG
- 2 adults & 1 juvenile, July 14, Springbank - RUB
- 3 adults & 5 young, July 21, Neapolis - RUB
- 1 young, July 30, Canadian Shield region of northeastern Alberta (59°53' N, 110°53' W) - ERK
- seen throughout summer, Elkwater Lake - Edwards (1974)
Fc - 3, Oct. 14, Amisk Creek south of Beaverhill Lake - LOG
1974. Sa - 1, April 22, Nisku - JIW
Eb - 1 adult & 4 young, July 26, Irricana - RUB
Fc - 1, Oct. 12, Tofield - JIW
- 1, Oct. 19, near Ft. MacKay - Sharp et al. (1975)
1975. Sa - 1, April 24, Frank Lake - HWP, CAR
Eb - 8, July 1, Pakowki Lake - Smith & Wallis (1976)
Fc - 1, Nov. 19, Calgary - HWP
1976. B - 12+ composed of 2 family groups, June 30, Pakowki Lake - WWS, CAW, CRW
- 2 immatures, July 25, Zama City - EVC, JLC
Fc - 1, Nov. 6, Frank Lake - RUB
1977. Sa - 11, April 26, Elk Island N.P. - SAJ
Eb - 1 on nest, May 21, Madden; on June 1 the nest was taken over by an American Coot - KAM
- nested, summer, Soggy Dog Pond, Jasper N.P. - Karasiuk et al. (1978)
B - 18 broods, June to July, Syncrude lease - Ward & Hollingdale (1978)
Fc - 1, Oct. 10, Calgary - JOT
1978. Ew - 1, Feb. 26, Wabamun Lake - JDL, TWT
Sa - April 29, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, May 2, Kingman - KWT
- May 6, Ft. McMurray - Gulley (1979)
- 1, May 7, Eagle Lake - HWP
Eb - 1 adult & 5 young, July 24, Vermilion Lakes, Banff N.P. - RUB
Fc - Nov. 8, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, Nov. 9, Waterton Lakes N.P. - SIL
1979. Sa - 1, April 22, Chestermere Lake - RUB
Fc - 1, Oct. 21, Calgary - ANS

Ew - 1, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. Fc - 1, Nov. 11, Calgary - ANS
Ew - 1, Dec. 21, Calgary - Christmas Bird Count

Horned Grebe *(Podiceps auritus)*

The spring arrival dates are from April 10 to April 24. These dates average two weeks earlier than those recorded in Sadler & Myres (1976) for the previous decade. Holroyd & Van Tighem (1983) give the spring migration peak as mid-May for Banff and Jasper National Parks. Peak fall migration numbers were noted for September, unlike the October peaks recorded by Sadler & Myres (1976). The latest fall migrants departed over a relatively short period from October 28 to November 16. The first winter record for this species was in 1977.

Riske (1976) documents the habitat preferences of this species in the Red Deer area. He also states that this species is adapted to move to other regions when drought periods eliminate semi-permanent ponds. In 1976, only 11 of 45 potholes used from 1971 to 1975 contained birds, with a total of only one pair raising young.

Although there are breeding records from extreme northern Alberta, this species appears to be generally scarce and very local throughout the northern part of the province.

1971. Sa - 1, April 18, Hussar - HAV
Fb - 300+, Sept. 28, Calgary - RIP
Fc - 1, Nov. 14, Calgary - RIP
1972. Sa - 1, April 22, Blizzard Lake - VGL
Fa - 1, Sept. 19, Calgary - RIP
Fb - 118, Sept. 25, Knights Lake, Waterton Lakes N.P. - Sharp (1973)
Fc - 2, Nov. 12, Wabamun Lake - LOG
1973. Sa - 5, April 21, Irricana - BIL, VGL
Sb - 26, April 22, Irricana - BIL, VGL
Fc - 2, Oct. 28, Irricana - RUB
1974. Sa - 1, April 10, Lethbridge - HES
- 1, April 18, Norfolk - HWP
Fc - 2, Nov. 3, McGregor Lake - EWB, RUB
1975. Sa - 1, April 19, Spruce Grove - BRB, GAB
- 1, April 24, Calgary - HWP
- 1, April 24, Frank Lake - HWP, CAR
- 1 pair, May 6, Mildred Lake - Sharp & Richardson (1976)
Sb - 31, April 27, Cheadle - TSS
Fc - 1, Nov. 16, Calgary - RUB
1976. Sa - 1, April 10, Galahad - KAS
B - 1 adult & 2 immatures, July 15, Zama City - EVC, JLC
Fb - 17, Nov. 2, Kananaskis Lakes - Salt (1976)
Fc - 3, Nov. 14, Travers Reservoir - RUB
1977. Sa - 2, April 23, Namaka Lake - HWP
- 1, April 23, Irricana - RUB
- April 24, Ft. McMurray - Gulley (1979)
Fc - 6, Nov. 6, Calgary - PES
- 1, Nov. 6, McGregor Lake - RUB
Ew - 1, Dec. 17, Wabamun Lake - Christmas Bird Count
1978. Sa - 1, April 16, Shepard - RUB
B - 1 pair & nest, May 20, Comrey - CAW, CRW
Fc - 1, Nov. 10, Waterton Lakes N.P. - SIL

1979. Sa - 1, April 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, April 23, Calgary - JOT
Sb - 58, May 9, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - Nov. 8, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, Nov. 12, Calgary - ANS
1980. Sa - 2, April 24, Cheadle - TSS
Fc - 2, Nov. 11, Calgary - ANS

Red-necked Grebe *(Podiceps grisegena)*

This species arrives during the last two weeks of April. An interesting migration peak for the mountains was recorded during spring migration in 1977. Most birds leave Alberta by mid-October or early November. Holroyd & Van Tighem (1983) state that this species peaks from late August to mid-September in Banff and Jasper National Parks. The first winter records were recorded in 1978 and 1979 at Wabamun Lake.

During the decade, Red-necked Grebes were nesting more widely in the south than previously.

In reviewing the records for the province, it appears that the southern edge of the parkland region coincides with the southern limits of the breeding range on the extreme east side of central Alberta. Salt & Salt (1976) illustrate a more extensive range in eastern Alberta. In addition, the authors feel that this species nests very locally in northern Alberta.

Riske (1976), studying this species near Red Deer, states that the species is three times more successful nesting on potholes than on lakes.

1971. Sa - 1, April 27, Iosegun Lake - MAC
- 2, April 27, Shepard - ROL, DVW
Eb - 2 nests, June 23, Chestermere Lake - BIL, VGL (Kondla & Pinel 1973b)
- 1 adult & 4 young, July 25, Maskinonge, Waterton Lakes N.P. - Sharp (1973)
Fc - 3, Oct. 8, Calgary - RIP
1972. Sa - 1, April 16, Calgary - GEA, WEB, BIL, VGL
Sb - 50+, April 30, Red Deer - WWS, CAW, CRW
Eb - 1 nest, June 1, Chestermere Lake - VGL (Kondla & Pinel 1973b)
- 1, June 19, Namaka Lake - DVW
- 1 young, July 8, Beauvais Lake - VGL
- 4 young, Aug. 22, Keoma - TSS
Fc - 6, Nov. 19, Wabamun Lake - LOG
1973. Sa - 1, April 20, Beaverhill Lake - BEB, GEB, JIW
- 1, April 21, Irricana - BIL, VGL
Sb - 29, April 23, Seebe - BIL, VGL
Eb - nest, May 16, Lake Newell - VGL, CAR
- nest, June 10, Millarville - BIL, JIM
- 2 nests, July 11 & 16, Seebe - BIL, VGL
Fa - 1, Sept. 19, Calgary - HWP
Fc - 2, Oct. 28, Irricana - RUB
- 1, Oct. 28, Cooking Lake - LOG
1974. Sa - 1, April 19, Tofield - ETJ, DAN
Eb - nest, May 26, Seebe - EMG, WGG

- 2 pairs nesting, May 27, Beauvais Lake - Crack & Danielson (1974b)
- nest, May 31, Vermilion Lakes, Banff N.P. - DPD, SAD
- 2 nests, June, Police Outpost P.P. - Crack & Danielson (1974a)
- 1 pair & nest, June 12, Mountain View - Smith (1975)
- nest, June 30, Norfolk - RUB
- 1 pair & 2 young, July 3, Spruce Coulee Reservoir - KVT, CRW
- nest, July 5, Chestermere Lake - RUB

Fa - 1, Sept. 14, Calgary - JOD
Fc - 2, Oct. 27, Irricana - RUB
1975. Sa - 3, April 25, Connemara - BIL, HWP
- April 29, Horseshoe Lake (Ft. McMurray) - Sharp & Richardson (1976)

Sb - 150, April 27, Wabamun Lake - JIW
Eb - nest, May 25, Seebe - BIL
- 2 nests, May 31, Irricana - RUB

Fc - a few, Oct. 25, Syncrude lease - Sharp & Richardson (1976)
- 1, Nov. 9, Wabamun Lake - RAE, DVP

1976. Sa - April 21, Ft. MacKay area - Francis & Lumbis (1979)
Eb - 3 birds & 2 nests, May 10, Beauvais Lake - WWS
- 4 nests, June 6 & 19, Irricana - RUB
- 1, July 31, Patricia Lake, Jasper N.P. - AAJ, SAJ, RHW
- 1 adult & 1 young, Aug. 14, Burnstick Lake - RUB

Fc - 1, Nov. 7, Wabamun Lake - DVW, LIW
1977. Sa - 1, April 23, Irricana - RUB
Sb - 76, May 9, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
B - nest with 3 eggs, June 27, northeast of Ft. MacKay - WWS
- 2, July 1, Spruce Coulee Reservoir - HWP

Eb - 2, Aug. 7, Calgary - RUB
Fa - 6, Sept. 13, Calgary - PES
Fc - 2, Nov. 5, Calgary - PES
1978. Sa - 3, April 23, Calgary - JOR
- 3, April 23, Canmore-Calgary area - JOD, JMP
- 8, April 23, Buffalo Lake - ADS
- 16, April 23, Vermilion Lakes, Banff N.P. - ANS

B - 1, June 18, Spruce Coulee Reservoir - GRW
Eb - nest, July 1, Keoma - RUB
- 2, July 17, Jasper N.P. - RUB

Fb - 24, Sept. 15, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Ew - 1, Wabamun Lake - Smith & Prach (1980)
1979. Sa - April 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, April 20, Countess - RUB

Fa - 5, Sept. 9, Eagle Lake - HWP
Ew - 1, Sundance Cooling Pond - Smith & Prach (1980)
1980. Fc - 1, Oct. 25, Kananaskis Lakes - NAB

Eared Grebe *(Podiceps nigricollis)*

The spring arrival dates were from April 11 to April 22, two weeks earlier than reported for the 1960's by Sadler & Myres (1976). The earliest reports were of relatively few birds, again in contrast to those reported by Sadler & Myres (1976). In the fall, Eared Grebes sometimes linger until early November. There are two winter records for the decade.

The breeding range changed from the second to third editions of *The Birds of Alberta*. An analysis of the available data indicates that the second edition depicts the range more accurately for western Alberta, while the third edition illustrates the range more accurately for the northern third of the province.

The 1977 Burdett colony was significant for its large size. In 1972, an interesting breeding record from Elnora was of an adult in winter plumage incubating eggs and mated to a bird in summer plumage. It was also unusual because this was the only pair on the small pond.

1971. Sa - 3, April 21, Shepard - DVW
1972. Sa - 3, April 21, Blizzard Lake - VGL, RIP
B - 1 adult in winter plumage on nest with 4 eggs, July 27, Elnora; only pair on pond; mate in summer plumage - WWS
Fb - 72, Sept. 22, Knights Lake, Waterton Lakes N.P. - Sharp (1973)
Fc - 1, Nov. 4, Hastings Lake - LOG
1973. Sa - 3, April 14, Frank Lake - BIL, VGL
B - flock of 30, July 16, Ghost Reservoir - BIL, VGL
Fc - 1, Oct 27, Elk Island N.P. - DEG
Ew - 1, Dec. 9, Wabamun Lake - LOG, TWT
1974. Sa - 1, April 12, Brant - RUB
Sb - 150, April 30, Onefour - WWS, CAW
B - 4, May 9-12, Hay-Zama Lakes - Wiseley & Tull (1975)
Fc - 1, Oct. 20, Lac La Nonne - JAP, PHZ
1975. Sa - 1, April 11, Frank Lake - WWS
Fc - 1, Oct. 11, Mildred Lake - Sharp & Richardson (1976)
- 2, Oct. 12, Chestermere Lake - RUB
- 4, Oct. 12, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
1976. Sa - 3, April 16, Bassano - EDB, EGB
B - 300 nesting, July 4, Burdett - RUB
Fa - 12, Aug. 24, Burnstick Lake - RUB
Fc - 2, Nov. 7, Eagle Lake - JOD, JMP
1977. Sa - 4, April 17, Frank Lake - RUB
B - 2,000+ birds and 950+ nests, July 10, Burdett - RUB (erroneously reported as July 1 in *American Birds* 31)
Eb - bred at Birch Lake - Francis & Lumbis (1979)
Fb - 53, Oct. 2, Frank Lake - RUB
Fc - 3, Nov. 12, Calgary - PES
Ew - 2, Dec. 26, Waterton Lakes N.P. - Christmas Bird Count
1978. Sa - 1, April 22, Langdon - JOR
B - 80 including many young, July 7, Pakowki Lake - RUB
- 1,000+ including many young, July 7, Brooks - RUB
Fc - 16, Oct. 9, Milk River - RUB
1979. Sa - 1, April 21, Blackie - RUB
Fc - 1, Nov. 4, Calgary - CFNS
1980. Sa - 4, April 18, Strathmore - GEF
Eb - "breeding colony established", Ft. McMurray area - Gulley (1983a)

Western Grebe *(Aechmophorus occidentalis)*

This species arrives in the spring during the last half of April and early May. The latest fall migrants during the decade were recorded from November 6 to 18, with peak numbers occurring during late September and early October. Holroyd & Van Tighem (1983) report that fall peak numbers occur in mid and late September in Banff and Jasper National Parks. There are six winter records for the decade.

The main nesting population of this species occurs on large lakes within the boreal forest of east-central Alberta. Packham & Rippin (1980) indicate that large beds of *Scirpus* or *Phragmites* are preferred nesting habitats. They estimated 1,562 birds in three colonies on Lac la Biche in 1980.

Kristensen & Nordstrom (1979) and Packham & Rippin (1980) studied the nesting success of this species at Cold Lake. Extralimital breeding during the decade was recorded at Frank Lake and Namaka Lake. Salt & Salt (1976), in describing the breeding range, do not include Pakowki Lake in the text but do include it in the range map. This species nests locally in southern Alberta.

1971. Sa - 4, April 27, Shepard - ROL, DVW
B - 115 nests, June 10, Lac Ste. Anne - KMM
- 1, July 15, Dinosaur P.P. - Kondla (1978)
Fb - 2,500+, Oct. 4, McGregor Lake - EWB
Fc - 1, Nov. 14, Calgary - RIP
1972. Sa - 1, May 2, Lethbridge - HES
Sb - 176, May 5, Lac des Arcs - BIL, VGL
Eb - 3 adults & 6 downy young, July 15, Frank Lake - VGL, RIP (Kondla & Pinel 1973b)
Fb - 2,500+, Sept. 22, McGregor Lake - EWB
Fc - 1, Nov. 12, Wabamun Lake - LOG
1973. Sa - 4, April 17, Brooks - HES
Sb - 1,000+, May 13, Pigeon Lake - ETJ
Eb - 15 including young, June 27, Namaka Lake - VGL
Fb - 800, Sept. 21, McGregor Lake - EWB
Fc - 1, Nov. 14, Calgary - KEM
1974. Sa - 25, April 20, Little Bow Lake - NGK
Eb - 1, July 7, Vermilion Lakes, Banff N.P. - BCM, RIP
Fa - 9, Sept. 19, Calgary - BOC, HWP
Fc - 1, Nov. 11, Chestermere Lake - HAV
1975. Sa - 1, April 27, Calgary - ANS, HAV
- 8, April 27, Cheadle - TSS
Sb - about 1,500, May 9, Chestermere Lake - TSS
Eb - 12+, July 1, Pakowki Lake - Smith & Wallis (1976)
Fb - 2,000 to 3,000, Oct. 19 - McGregor Lake - CFNS
Fc - 2, Nov. 16, Calgary - RUB
Ew - 1, Dec. 26, Lethbridge - Christmas Bird Count
- 1, Dec. 27 & 29, Wabamun Lake - RAE, RIP
1976. Ew - 1, Jan. 17, Wabamun Lake - DVW, LIW
Sa - 1, April 30, Dowling Lake - ROB, DVW, LIW
- 2, April 30, Keho Lake - ELH
- 300, April 30, McGregor Lake - ELH
Sa/Sb - 1,000, April 30, Travers Reservoir - ELH
Fa - 1 stranded on land, Sept. 1, Calgary - RUB
Fb - 200+, Sept. 24, Frank Lake - RUB
Fc - 2, Nov. 14, McGregor Lake - RUB
- 3, Nov. 14, Travers Reservoir - RUB
Ew - 1, Dec. 1, 1976 to Jan. 17, 1977, Wabamun Lake - TMB, RAE, DVW
1977. Sa - 24, April 28, Lake Newell - ELH
Sb - 1,000, May 10, Lake Newell - Nordstrom (1977)
Em - 5, during the spring, Birch Lake - Francis & Lumbis (1979)
Eb - 35 including 16 half-grown young, July 10, San Francisco Lakes - RUB
Fb - 2,200, Oct. 2, Frank Lake - RUB
- 2,500+, Oct. 2, Eagle Lake - JOD, PES
Fc - 1, Nov. 6, McGregor Lake - RUB
- 4, Nov. 6, Frank Lake - RUB

- 1, Nov. 6, Calgary - PES
1978. Sa - 1, April 23, Seebe - LOB, BIL
Sb - 700, May 3, McGregor Lake - GRW
B - 1,006 nests, summer, Cold Lake - Kristensen & Nordstrom (1979)
Fa - 1, Sept. 13, Millarville - HWP
Fb - thousands, Sept. 22, Bear Lake - ELC, GEC
Fc - Nov. 8, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, Nov. 12, Lethbridge - MIO
Ew - 1, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. Sa - April 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, April 23, Chestermere Lake - RUB
Sb - 350+, May 12, Frank Lake - JOR
Fc - 14, Nov. 11, Ghost Reservoir - SEA, JMP
- 2, Nov. 11, Pincher Creek - WWS
Ew - 2, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. Sa - 3, May 10, Travers Reservoir - HWP
Sb - birds built up during May at Cold Lake and peaked at 1,050 birds on May 29 - Packham & Rippin (1980)
Fc - 1, Nov. 18, Calgary - JOT
- 1, Nov. 18, Edmonton - PSA

Clark's Grebe *(Aechmophorus clarkii)*

Clark's Grebe was recognized as a full species in 1985 (A.O.U. 1985). Taverner (1919) states that one of two birds collected by Horsbrugh at Buffalo Lake in June 1914 was a Clark's Grebe. In Horsbrugh's (1918) own words - "One of the Western Grebe's skins is an interesting bird, being the form *clarkii*, originally described as an independent species but now regarded as a variant form of the Western. It is characterized by its smaller size, different coloration of lores and bill and by having a recurved bill like the Avocet."

There are apparently no other records for Alberta until 1988, when there were two spring observations and three breeding records. All the breeding records are from one location.

1988. Ev - 1, May 23, Keho Lake - DOD, TRD (Dolman 1988a)
- 1, May 24, Namaka Lake - REB (Dickson 1988)
Eb - 2 adults & 3 small young, July 27, Crow Indian Lake - HWP (Dolman 1988b)
- 5 adults & 3 small young, July 31, Crow Indian Lake - EDM, RTS (Dolman 1988b)
- up to 4 pairs of adults, summer, Crow Indian Lake - RIK (Dolman 1988b)

FAMILY: PELECANIDAE

American White Pelican *(Pelecanus erythrorhynchos)*

In most years, this species arrives in southern Alberta in late April and early May. There is an exceptionally early record for 1971. Sadler & Myres (1976) and Salt & Salt (1976) do not discuss fall migration. However, it appears from the records summarized below that most birds depart in the fall from mid to late September.

Markham (1979b) lists nine colonies for Alberta from 1975 to 1977, and gives the number of nests for each colony. There were nesting colonies at Slave River, Birch Lake, Wadlin Lake, Utikuma Lake, Pelican Lake, Lake Newell, Big Island Lake, Coleman Lake, and Beaverhill Lake. In all, 234 nests were counted in nine colonies. The number of nesting colonies was up greatly from the four colonies listed by Vermeer (1970), but the number of nests was up only slightly from 220 nests recorded from 1967 to 1969 by Vermeer (1970). Stepney (1987) summarizes the status of American White Pelicans in Alberta. He states that there were twelve known colonies in Alberta between 1971 and 1980.

Nordstrom (1978b) reports that pelicans nested on Lake Newell in 1977. About 24 nests were found, but none were successful probably due to disturbance by humans.

Griffiths (1980) notes that the Mountain Rapids colony on the Slave River is the farthest north colony in North America. She points out that Alexander Mackenzie recorded this colony in 1789, and even then, it was well known to his Indian guides. Griffiths (1980) also states that 30-45 pairs of adult pelicans arrive in the second or third week of April, with egg-laying occurring during the second week of May.

Vermeer (1977) notes that pelicans nesting at Primrose Lake on the Alberta-Saskatchewan border migrate chiefly to Texas and eastern Mexico. None appear to cross to the west side of the Rocky Mountains.

Beaver & Lewin (1981) recommend that the censusing of incubating pelicans in northern Alberta should be conducted in late May or early June during the peak of the incubation period, and that evening rather than morning census flights were preferable.

1971.	Sa	- 4, April 1, Calgary - WWS
	B	- 15, June 29, Elkwater Lake - WWS
		- 300-400, July 29, McGregor Lake - EWB
	Fc	- 5, Oct. 5, Rolling Hills Lake - CDB, RDB
1972.	Sa	- 5, May 11, Lake Newell - VGL, DVW
	B	- 550, Aug. 6, McGregor Lake - EWB
	Fc	- 12, Sept. 22, McGregor Lake - EWB
1973.	Sa	- 5, May 12, Lake Newell - CFNS
	B	- 10, July 12-14, Sherburne Lake - GRW
		- 230, July 18, Lake Newell - BIL, VGL
		- 515, July 30, McGregor Lake - EWB
	Fc	- 20, Sept. 8, Lac la Biche - HIR, MAR
		- 2, Sept. 21, McGregor Lake - EWB
1974.	Sa	- 6, April 24, Beaverhill Lake - DID
	Em	- 1, May 17 & 18, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
	B	- 250, June 28, Lake Newell - BCM, RIP
		- 1, July 9, Wentzel Lake - Höhn & Burns (1975)
		- 1,200-1,500, Aug. 20, McGregor Lake - EWB, JIM
1975.	Sa	- 4 sightings of up to 5 birds, May 3-10, Tofield - DID
	B	- 1,500+, July 11, McGregor Lake - EWB
		- 360, July 17, Beaverhill Lake - Weseloh et al. (1975)
		- no nests due to "earlier disturbance", 215 non-breeding birds observed, Namur Lake - Bishoff & Fyfe (1976)
	Fc	- 1, Sept. 25, Beaverhill Lake - Weseloh et al. (1975)
1976.	Sa	- 1, April 2, Beaverhill Lake - AOB, BRB, JER
	B	- 140 nests, May 27, Birch Lake - Beaver & Lewin (1981)

Eb - 14 nests with from 1-2 eggs, June 1, Beaverhill Lake - STB, DOC (Weseloh et al. 1977)
B - 300, June 10, Beaverhill Lake - LUB, RIB
- 30 adults, July 1, Pakowki Lake - WWS, CAW, CRW
- 161, July 3, McGregor Lake - RUB
- 300, July 4, Lake Newell - AAJ, SAJ, JDW
1977. Sa - 3, April 24, Eagle Lake - JOR
B - 200 nests, June 6, Lake Newell - Nordstrom (1978b)
- 70 nests, June 8, Birch Lake - Beaver & Lewin (1981)
- 143, June 25, Frank Lake - RUB
- 123, Aug. 28, McGregor Lake - RUB
Fc - 8+, Sept. 16, McGregor Lake - ELH
1978. Sa - 2, April 30, Travers Reservoir - HWP
B - 47, July 9, Lake Newell, RUB
Fc - 1, Sept. 16, McGregor Lake - RUB
1979. Sa - 1, April 21, Carseland - RUB
Eb - 15, May 28, Bear Lake - ELC, GEC
Fc - 1, Sept. 23, McGregor Lake - CLH
1980. Sa - 1, May 10, Travers Reservoir - HWP
Eb - 1, Aug. 31, Waterton Lakes N.P. - TEH
Fc - 1, Oct. 5, Beaverhill Lake - DVC, DID, SYL, PTS, ROS, TWT

FAMILY: PHALACROCORACIDAE

Double-crested Cormorant *(Phalacrocorax auritus)*

Double-crested Cormorants arrive in southern Alberta in late April and early May. Salt & Salt (1976) state that they are rarely seen in Alberta after mid-September. Records for this decade indicate that in some years they linger into late September and early October.

Vermeer (1969a, 1973c) listed the known Alberta colonies and stated that those at Lake Newell and Lower Therien Lake increased in size since 1967. Nordstrom (1978b) noted the increase in colony size at Lake Newell from the 232 nests recorded by Vermeer in 1969 to 444 nests in 1971, 564 nests in 1976 and 665 nests in 1977. This colony is the largest in Alberta.

Weseloh et al. (1975), Broadhead et al. (1975) and Pinel & Butot (1978) report new colonies for Beaverhill Lake, St. Mary's Reservoir and Irricana, respectively.

Markham (1979a) states that dramatic population increases have occurred in Alberta and Saskatchewan in recent years. In the Cypress Hills, the authors observed no cormorants in 1971, but by 1973 they were frequently observed throughout the summer (Edwards 1974).

1971. Fc - 1, Oct. 7, Little Bow Lake - CDB, RDB
1972. Sa - 1, May 9, Calgary - MAS, DVW
Eb - 12 birds on nests, May 21, Little Bow Lake - Kondla & Pinel (1973b)
- 70, June 13, Little Bow Lake - VGL, DVW
B - 444 nests, Sept. 12, Lake Newell - VGL, DVW; 80-90% appeared to have been used in 1972.
Fc - 40, Oct. 7, Rolling Hills Lake - ADB, CDB
1973. Sa - 1, April 22, Lake Newell - EDB, EGB
B - 1, June 27, Winagami Lake - WWS

- small numbers seen regularly throughout the summer, Spruce Coulee Reservoir - Edwards (1974)
Fc - 500, Sept. 9, Lake Newell - EWB
1974. Sa - 4, April 20, Little Bow Lake - NGK
Fc - 2, Sept. 8, Irricana - RUB
1975. Sa - 1, May 10, Lake Newell - LIF, WIF
B - 20, July 24, Pakowki Lake - Smith & Wallis (1976)
Eb - 19 nests, June 7, St. Mary's Reservoir - Broadhead et al. (1975)
- 7 nests, Aug. 27, Beaverhill Lake - Weseloh et al. (1975)
Fc - 4, Sept. 5, Beaverhill Lake - SRJ, DVW
- 500, Sept. 5, Lake Newell - EWB
1976. Sa - 1, April 16, Cross Lake P.P. - PAH
B - 30 nests, June 2, Beaverhill Lake - Weseloh et al. (1977)
- small colony of adults on nests, June 12, Irricana - HWP (Pinel & Butot 1978); birds first appeared here in 1974 apparently in response to the stocking of fish in the lake in 1973.
1977. Sa - 12, April 28, Lake Newell - ELH
Fc - 1, Sept. 3, Irricana - RUB
1978. Sa - 2, May 7, Irricana - RUB
Eb - 1, June 1, Ft. Macleod - CAW
Fc - 1, Oct. 7, Bassano - RUB
1979. Sa - 1, May 9, Calgary - JOR
Eb - 8, June 20, Bear Lake - ELC, GEC
Em - 1, Oct. 22, Leach Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 1, Oct. 31, Calgary - BSD
1980. Sa - 4, April 20, Strathmore - DAE, JOR
Eb - 10, May 30, Knights Lake, Waterton Lakes N.P. - TEH, SIL
Fc - 4, Sept. 14, Eagle Lake - CFNS

FAMILY: ARDEIDAE

American Bittern *(Botaurus lentiginosus)*

This species arrives in late April and early May. In the seven years for which we have early arrival dates, the time span is very short: April 26 to May 5. There are few fall records. Our impression is that most birds leave by early September with birds observed lingering until late October.

Records for the decade indicate that the American Bittern is local in the south and absent from most of northern Alberta. A few records suggest localized breeding in the mountains. However, the only definite nesting record for the mountains that the authors are aware of is from Vermilion Lakes, Banff National Park on June 27, 1911 (Holroyd & Van Tighem 1983).

1971. Sa - 2, May 1, Eagle Lake - ROL, DVW
Fc - 1, Oct 7, Little Bow Lake - CDB, RDB
1972. Sa - 1, April 30, Strathmore - JEC, JOC
Fc - 1, Oct. 1, Frank Lake - FAN #3
1973. Sa - 1, May 5, Beaverhill Lake - BEB, GEB, JIW
Fc - 2, Oct. 21, Beaverhill Lake - DID
1974. Sa - 4, April 27, Beaverhill Lake - LOG
B - 1 pair believed to have nested, summer, Police Outpost P.P. - Crack & Danielson (1974a)
Fc - 1, Oct 20, Tofield - DID, ROS

1975. B - 1, May 30 and June 6, Vermilion Lakes, Banff N.P. - Karasiuk (1976a)
F - 1, Sept. 14, Syncrude lease - Sharp & Richardson (1976)
1976. Sa - 1, April 30, Tofield - SAJ, TAJ
- 1, May 2, Namaka Lake - HWP
B - 1, June 23 & 30, Kananaskis P.P. - Salt (1976)
- 1, Aug. 5, Ft. Chipewyan - RAE
1977. Sa - 1, May 5, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, May 5, Ft. MacKay - WWS
- 1, May 7, Namaka Lake - HWP, JOR
1978. Sa - 1, April 26, Grande Prairie - LLN, LRN
B - 3, May 28, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, June 4, Bow Valley P.P. - HWP (found dead below power line)
1979. B - 2, May 21, Waterton Lakes N.P. - WWS
Fa - 1, Aug. 25, Calgary - HWP

Great Blue Heron *(Ardea herodias)*

This species arrives in southern Alberta during the last half of March or early April. Holroyd & Van Tighem (1983) state that it occurs rarely in the mountains in the spring. In most years, birds leave Alberta by mid-October, while in a few years they were recorded lingering until late November.

The range for this species expanded significantly between the second and third editions of *The Birds of Alberta*. Vermeer (1969b, 1973c) lists the 39 known Alberta heronries, including 14 new ones found from 1969 to 1972.

Lang (1974) gives the status of five colonies in the Calgary area. Comparing his results to Vermeer's data for the same colonies in 1967, Lang recorded an increase in nests from 92 to 107, but the mean number of fledglings per pair was 2.0 compared with 2.5. Butot (1975e) studied three of the same colonies as Lang (1974) and recorded a higher number of young fledged (2.16) per nesting pair. Fisher (1979) provides further data on two of the same colonies studied by Lang (1974) and Butot (1975e).

Weseloh et al. (1975) found the species nesting at Beaverhill Lake for what is believed to be the first time in recent years. Kristensen (1981) records the northernmost colony in Canada on the Peace-Athabasca Delta in 1977.

1971. Sa - 7, April 5, Carseland - RUJ
B - 41 nests, June 24, Dinosaur P.P. - Kondla (1978)
- 11 nests, July 22, Irvine - WWS, CAW
Fc - 3, Oct. 9, De Winton - BIL
1972. Sa - 1, March 29, Carseland - VGL
B - 18 nests, April 8, Okotoks - GEA, WEB
Fc - 1, Nov. 20, Calgary - HWP
1973. Sa - 1, March 20, Carseland - VGL
B - 1, June 5, Winagami Lake - WWS
- 50 nests, July 3, Chip Lake - JIW
- 25 nests, Aug. 13, east of Carseland - BAD, BOD
Fc - 1, Oct. 13, Carseland - CFNS
1974. Sa - 2, March 30, Carseland - HWP, LIP
- 1, April 4, Wabamun Lake - REH
B - 5 nests with young, early July, Chauvin - LOG
- several nests, Aug. 11, Clyde - BEB, GEB

Fc - 1, Oct. 19, Cochrane - CAO
1975. Sa - 2, April 6, Carseland - HWP
B - 14 nests, May 14, Thunder Lake - ROD
Eb - 3 nests with young, Aug. 3, Beaverhill Lake - Weseloh et al. (1975)
- 1, Aug. 7 & 11, Ft. Chipewyan - JOK
Fc - 4, Oct. 2, Edmonton - DVW
- 1, Oct. 3, Beiseker - LEH
1976. Sa - 1, March 29, Calgary - ADS
- 1, March 29, Edmonton - GRS
B - 20 nests, Beaverhill Lake - Weseloh et al. (1977)
- heronry found 14 km south of Gwynne - DBB
- 46 nests, Oct. 11, Irvine - DRG, DVW, LIW
Fc - 1, Oct. 11, Dalemead - HWP
- 2, Oct. 12, Hinton - RIC
1977. Sa - 1, April 4, Aldersyde - GRW
Eb - 12 nests, Aug. 24, Birch River at Lake Claire - Kristensen (1981)
Fc - 1, Oct. 19, Dry Island Buffalo Jump P.P. - ELH
1978. Sa - 10, March 25, High River - RUB
Fc - 1, Nov. 26, Calgary - CFNS
1979. Sa - 1, March 30, Pincher Creek - WWS
Fc - 1, Sept. 25, Edmonton - DVS
1980. Sa - 1, March 12, Calgary - OLD
Fc - 1, Oct. 14, Calgary - OLD

Great Egret *(Casmerodius albus)*

The records below are the fifth, sixth and seventh for the province. All the records of this species in Alberta are spring sightings except for the 1954 record at Big Lake near Edmonton (Salt & Wilk 1966).

1976. Ev - 1, May 23, Beaverhill Lake - DID (Weseloh 1977a)
1977. Ev - 1, June 18, Frank Lake - RUB, JCS (Pinel & Butot 1978). Also seen by JCS on June 19 & 22.
1980. Ev - 1, May 12, Airdrie - HWP, JOR

Snowy Egret *(Egretta thula)*

Prior to this decade, there were only three reports for Alberta. The records listed below are the fourth to ninth for the province. The first fall record was in 1974. In Alberta, most Snowy Egrets are observed as single birds during May and June.

1971. Ev - 1, May 20, Irricana - Weseloh & Lazerte (1972)
1973. Ev - 1, May 18 & 19, near Camrose - LEM, AIW (Salt & Salt 1976)
1974. Ev - 1, Sept. 2, Irricana - MRL (Pinel & Butot 1978)
1976. Ev - 1, June 30 & July 1, Pakowki Lake - WWS, CAW, CRW
1977. Ev - 1 (photographed), June 19, Frank Lake - RUB, JCS (Pinel & Butot 1978). It is interesting to note that a Great Egret was seen on the same day at the same place by the same observers.
1980. Ev - 1, early May, Crow Indian Lake - BRT

Cattle Egret *(Bubulcus ibis)*

The following record is the third for the province, and the only spring observation.

1980. Ev - 1, June 18, High River - fide. RUB (Gollop 1980b)

[Green-backed Heron *(Butorides striatus)*]

There is one hypothetical record for the decade.

1978. Ev - 1, June 5, Vista Lake, Banff N.P. - SCO (Holroyd & Van Tighem 1983)

Black-crowned Night-Heron *(Nycticorax nycticorax)*

This species arrives in Alberta from mid-April to early May. In the fall, most birds leave by mid-September. However, stragglers are recorded into late October.

The large size of the Beaverhill Lake colony (Weseloh et al. 1977) is noteworthy.

1971. Sa - 3, May 1, Namaka Lake - ROL, DVW
Fc - 1, Oct. 23, Rolling Hills Lake - CDB, RDB
1972. Sa - 2, April 30, Namaka Lake - CFNS
1973. Sa - 1, April 29, Cheadle - ISS
- 4, April 29, Tofield - DID
Fc - 1, Oct. 6, Beaverhill Lake - LOG
1974. Sa - 1, April 11, Calgary - BIL
Sb - 15, April 28, Namaka Lake - HWP, CAR
Fb - 25, Sept. 14, Tofield - DID, ROS
Fc - 16, Oct. 13, Tofield - DID, ROS
1975. Sa - 2, April 16, Calgary - HAV
- 12, April 26, Tofield - DID
B - 75 birds plus many nests, July 24, Pakowki Lake - Smith & Wallis (1976)
Fc - 2, Oct. 5, Namaka Lake - RUB
1976. Sa - 3, April 16, Namaka Lake - EDB, EGB
B - 549 nests accurately counted and marked, June 9 to Oct. 5, Beaverhill Lake - Weseloh et al. (1977)
1977. Sa - 9, April 16, Namaka Lake - HWP
1978. Sa - 1, May 3, Calgary - JMP
Fc - 1, Sept. 10, Irricana - RUB
1979. Sa - 4, April 28, Bruce Lake - RAW

FAMILY: THRESKIORNITHIDAE

White-faced Ibis *(Plegadis chihi)*

Prior to the 1970's, there were only two sight records for the province. The first positive identification of this species in Alberta was obtained on June 11, 1974 when it was photographed at Pakowki Lake. Since 1974, this species has regularly been observed at Pakowki Lake. No nests have been found, but the number of records strongly suggests breeding in the area. During the decade this species was also recorded at Frank Lake, Crow Indian Lake and Stirling Lake.

1974. Ev - 1, June 11, Pakowki Lake - Salt & Salt (1976)
1975. Ev - 2, May 11, Frank Lake - DWD, JCS (Pinel & Butot 1978)
- 6, May 28, Crow Indian Lake - HAJ (Schuler 1977)
- 2 to 7 birds, June 21 to Sept. 13, Stirling Lake - DVE, GEF, HAJ, HES (Schuler 1977)
- 5, July 1, Pakowki Lake - Smith & Wallis (1976)
- 11 adults, July 24, Pakowki Lake - Smith & Wallis (1976)
1976. Ev - 1, May 11, Stirling Lake - DAF (Schuler 1977)
1978. Ev - 3, May 20, Pakowki Lake - CAW, CRW
- 1, July 7, Pakowki Lake - RUB
1979. Ev - 1, July 10, Pakowki Lake - PRP
- 1, Aug. 19, Frank Lake - PHA
1980. Ev - 5, June 22, Pakowki Lake - CRW

FAMILY: ANATIDAE

Tundra Swan *(Cygnus columbianus)*

The first spring arrivals return to southern Alberta from mid-March to early April. Peak numbers during the spring passage are observed in mid-April, and all but a few birds leave by the third week of May. The fall passage appears to be contracted with the birds arriving in early October, peaking in late October, and lingering to mid-November in some years. Houston & Houston (1975) record an unusually early fall migrant record for 1974.

There are four summer records from the grassland region and two winter records from Waterton Lakes and Banff National Parks.

1971. Sa - 16, March 12, Shepard - JOP
Sb - 7,619, May 9-13, Peace-Athabasca Delta - Hennan (1972)
Sc - 2, May 28, Beaverhill Lake - TSS
Fa - 16, Oct. 4, San Francisco Lake - ROL, DVW
Fb - "single survey in fall of 1971 counted 11,000", aprroximately 12% of the North American population, Peace-Athabasca Delta - Hennan (1972)
Fc - 8, Oct. 24, Onefour - RTO, COS
1972. Sa - 2, March 15, Irricana - DAL, RAO, DVW
Sb - 1,186, April 21, Frank Lake - WWS, CAW
Sc - 2, June 2, De Winton - HAB, VGL
Eb - 1, June 21, Cheadle - TSS
Fa - 20, Oct. 7, Rolling Hills Lake - ADB, CDB
Fc - 1, Nov. 4, Joseph Lake - LOG
- 13, Nov. 8, Chestermere Lake - BIL, VGL
1973. Sa - 4, March 16, Brant - VGL
Sb - 2,200, April 14, Frank Lake - BIL, VGL
Sc - 1, May 12, Tofield - GWG, LOG
Fa - 8, Sept. 30, Beaverhill Lake - GWG, LOG
- 7, Oct. 8, Gayford - MRL
Fb - 4,483, Oct. 5-6, Peace-Athabasca Delta - Hennan (1974)
Fc - 12, Nov. 16, Maskinonge, Waterton Lakes N.P. - KEB
1974. Sa - 2, March 28, Lethbridge - HES
Sb - 1,500, April 12, Namaka Lake - RUB

Sc - 1, May 13, Little Fish Lake - WWS, CAW
Fa - Sept. 8, Stettler - Houston & Houston (1975)
Fb - 1,661, Sept. 24-26, Peace-Athabasca Delta - Hennan (1974)
Fc - 4, Nov. 17, Baintree - ADM, JIM
1975. Ew - 1, Jan. 4 & 6, Waterton Lakes N.P. - KEB, BOE
Sa - 4, March 14, Waterton River, Waterton Lakes N.P. - KEB
Sb - 300, May 1, Milo - EWB
Sc - 1, June 8, Frank Lake - KSC, JOD
Eb - 1, July 13, Beynon - TSS
Fa - 11, Sept. 9, Syncrude lease - Ward et al. (1976)
Fb - 1,492 (356 young), Oct. 25, Eagle Lake - RUB
- 1,650, Nov. 6, Frank Lake - EWB
Fc - Nov. 19, Knights Lake, Waterton Lakes N.P - KEB
- 7, Nov. 21, Big Lake - DVP, BRT
1976. Sa - 4, March 16, Waterton River, Waterton Lakes N.P. - KEB
Sb - 5,000+, April 18, Frank Lake - RUB
Sc - 1, May 23, Irricana - RUB
- 500, May 25, Margaret Lake - LAW (Höhn 1976a)
Fa - several, Sept. 8, Ft. Chipewyan - JOK
- 13, Oct. 5, Beaverhill Lake - STB, DVW
Fb - 500-900, Oct. 11, Beaverhill Lake - SAJ
Fc - 21, Nov. 12, Frank Lake - RUB
Ew - 1, Dec. 19, Banff - Christmas Bird Count
1977. Sa - 30, March 22, Frank Lake - GRW
Sb - 800, March 31 & April 5, Frank Lake - GRW
Sc - 5, May 23, Irricana - RUB
Eb - 1, July 10, Burdett - RUB
Fa - 3, Oct. 6, Keoma - RUB
Fb - 2,000-3,000, Oct. 22, Beaverhill Lake - FBG, TWT, ALW, TAW
Fc - 50, Nov. 17, Maskinonge, Waterton Lakes N.P. - KEB
1978. Sa - 4, March 25, Carseland - RUB
Sc - 60, April 29, Namaka Lake - RUB
Fa - 1, Oct. 6, Balzac - CAO
Fb - 1,000, Nov. 10, Knights Lake, Waterton Lakes N.P. - SIL
Fc - 1 immature, Nov. 14, Travers Reservoir - BRA
1979. Sa - 6, March 18, Blizzard Lake - BIL, LOL
Sb - 1,000+, April 23, Calgary - WWS
Sc - 1, May 26/27, Buffalo Lake - Wiseley (1980a)
Eb - 2, July 1, Irricana - RUB
Fc - 1, Nov. 18, Calgary - ANS
1980. Sa - 4, April 3, Langdon - TSS
Sb - 1,000+, April 19, Irricana - DAE
Sc - 2, May 10, Chestermere Lake - CFNS
Fc - 120, Nov. 16, Eagle Lake - ANS

Trumpeter Swan *(Cygnus buccinator)*

This species arrives in southern Alberta in mid-April, and most birds pass through in a two-week period. There are fewer fall records, but they indicate that this species leaves during the latter half of October.

Extralimital nesting was recorded for the Edson and Cardston areas. Although Sadler & Myres (1976) were not aware of any breeding records since 1962 for the Alberta section of the Cypress Hills, observations below indicate that a few birds resided there up to 1974.

Turner & MacKay (1978) give figures for the autumn population of this species in the Grande Prairie area from 1959 to 1977. The number of pairs and the total population increased in the area in the 1970's. Siferd (1982) describes a predation attempt on this species by a mink *(Mustela vison)* in 1979 at Dickson Lake.

The first winter records for this species occurred during this decade and were at Calgary, Carseland, and Waterton Lakes National Park. Salt & Salt (1976) state that most of the Trumpeter Swans that nest in Canada winter in British Columbia. Shandruk (1987), however, shows that all Alberta nesting birds overwinter in the Tristate area of Idaho, Montana and Wyoming.

1971. Sa - 50, April 26, Grande Prairie - MAC, COS
Sc - 5, May 30, Beiseker - WIH
Eb - 1, June 20, Fickle Lake - ETJ
- 1 pair, June 24, Jasper N.P. - ETJ
B - 2 adults, Sept. 7, north of Reesor Lake - WWS
1972. Sa - 2, April 15, Conrich - GEA, WEB
Sc - 4, April 30, Cochrane - GEA, WEB, BIL, VGL
Eb - 1 adult, June 16, Mattoyekiu Lake - Kondla et al. (1973)
B - 3 adults, June 13 and July 6, north of Reesor Lake - WWS, CAW, CRW
Fc - 1, Oct. 27, Banff - TSS
1973. Sa - 1, April 7, Dalemead - RUB
Sc - 1, April 21, Irricana - BIL, VGL
Fc - 12, Oct. 26, Chestermere Lake - EGB
1974. Sa - 3, April 9, Milo - EWB
B - 2 nested on slough north of Reesor Lake, reported to RUB by park attendant.
Fc - 1, Oct. 19, Cheadle - TSS
Ew - 1 adult & 1 immature, Nov. 27 to Dec. 29, Calgary - CFNS (Pinel & Butot 1978)
1975. Ew - Immature disappeared after Dec. 29/74, but adult seen until April 13, Calgary - CFNS (Pinel & Butot 1978)
Sa - 2, April 12, Carseland - RUB
- 9 (4 banded), April 14, Waterton River, Waterton Lakes N.P. - KEB
Sc - 2, June 1, Cochrane Lake - RUB
Fa - 2, Oct. 12, Irricana - RUB
Fb - 26 adults & 10 immatures, Oct. 23, Water Valley - Johnston (1976b)
Fc - 8, Oct. 28, Grande Prairie - JAM
- 4, Oct. 30, Water Valley - Johnston (1976b)
1976. S - 4, April 27, Dimsdale - Acorn (1976b)
Eb - 1, July 14, Kananaskis Lake - Salt (1976)
Fa - 1, Sept. 21, Frank Lake - RUB
Fc - 1 adult & 1 immature, Nov. 5, Saskatoon Lake - YVM
1977. Sa - 4, April 9, Waterton Lakes N.P. - RTB
- 18, April 16, Grande Prairie - AUA, KAA
- 1, April 17, Nightingale - JOR
Em/Fa - 2, Sept. 28, Sounding Lake - WWS, CAW
Ew - 1 (photographed), Dec. 17, Carseland - PES
1978. Sa - 1, April 3, Grande Prairie - KAA
Sc - 1, May 5-7, Irricana - RUB
Fb - 61 adults & 4 immatures, Sept. 30, Bear Lake - ELC, GEC
1979. Sa - 2, April 14, Calgary - WWS
- 6, April 14, Wembley - ELC, GEC
Sc - 1, April 23, Calgary - WWS

Eb - 1 pair & 3 young, July 19, Edson - Nordstrom (1984)
- 1 pair & 5 young, Sept. 9, southwest of Cardston - RUB. Bill McKay also informed RUB that in 1977 two adults were present but did not nest and in 1978 the birds had 5 eggs, of which 1 hatched but subsequently died. These eggs are in the PMA collection.
Fc - 2 adults, Nov. 4, Wembley - GEC
Ew - 1 immature, Dec. 1, Waterton Lakes N.P. - WWS
- 1 adult, Dec. 20, Calgary - WWS
1980. Sc - 4, May 14, Waterton Lakes N.P. - WWS
Eb - 1 pair & 6 young, Aug. 21, Edson - Nordstrom (1984)
Fc - 1, Oct. 8 to Nov. 9, Lac des Arcs - Steeves (1981)

Greater White-fronted Goose *(Anser albifrons)*

Most migrants occur in the eastern half of the province. During the spring passage, the first birds arrive in late March or early April with the peak movement generally occurring in late April and early May. Beaverhill Lake appears to be a major spring staging area. The fall passage is more extended, sporadic and less concentrated with early southbound birds arriving in southern Alberta in late August. By mid-October, most have left the province, but a few stragglers remain until early November.

1971. Fa - 500, Sept. 12, Pemukan - ISS, DVW
- 500, Sept. 12, Coronation - ISS, DVW
Fc - 20-25, Oct. 9, Stirling Lake - DAL
1972. Sa - 1 immature, March 21, De Winton - VGL
Fb - 300, Sept. 10, Cold Lake - WWS, CRW
Fc - 30, Sept. 22, Vulcan - GRG
1973. Sa - 20, March 25, Tofield - LUB, GRG, PAG
Sb - 5,000, May 5, Beaverhill Lake - GWG, LOG
Sc - 1, May 19, Miquelon Lake - VGL
Fa - 240, Sept. 1, Beaverhill Lake - GWG, LOG
Fb - 1,000, Sept. 30, Little Fish Lake - WWS
Fc - 1 immature, Oct. 20, Beaverhill Lake - LOG
1974. Sb - 13,000, April 25-28, Beaverhill Lake - GWG, LOG
Sc - 50, May 5, Cooking Lake - JIW
- 275, May 5, Dunstable - VGL
Fa - 45, Aug. 21, Ft. Saskatchewan - RIP
Fb - 2,000, Sept. 4, Sullivan Lake - TSS
Fc - 50, Oct. 6, Tofield - RIP, JIW
1975. Sa - 40, April 19, Tofield - DID
Sc - 12, May 18, Tofield - KAB, DID
Fa - 15, Aug. 27, Beaverhill Lake - ROB, DVW
Fc - 7, Oct. 19, McGregor Lake - CFNS
1976. Sa - 2, March 27, Carbon - Butot (1976c)
Sb - 3,400, April 17, Beaverhill Lake - MRB, DVW, LIW
Sc - 31, May 6, Beaverhill Lake - LUB, DVW
Fa/Fb - 2,000, Sept. 5, Grassy Island Lake - BRA
Fb - 2,000+. Oct. 15, Bindloss - WWS
Fc - 1, Nov. 14, with a flock of Canada Geese, McGregor Lake - RUB
1977. Sa - 1, April 2, Nightingale - HWP, LIP
Em - 27, April 10, Bear Lake - ELC, GEC
Sb - 400-500, April 16, Beaverhill Lake - DVW, LIW
Sc - 1, May 8, Beaverhill Lake - DVW
Fa - 30, Aug. 9, Ft. MacKay - WWS
- 1 adult, Aug. 14, Calgary - ANS

Fb - 1,000, Sept. 8, Grassy Island Lake - BRA
Em - 45, Sept. 26, Bear Lake - ELC, GEC
Fc - 2, Nov. 5, associating with 1,500 Canada Geese, Calgary - PES
1978. Sa - 50, April 12, Beaverhill Lake - DID
Sb - 5,000, May 5, Beaverhill Lake - DID
Sc - 2, May 15, Hay-Zama Lakes - Gollop (1978)
- 2, May 16, Beaverhill Lake - DID
Em - 48, Sept. 19, Bear Lake - ELC, GEC
1979. Em - 11, April 22, Bear Lake - ELC, GEC
Fa - 13, Aug. 24, Cheadle - TSS
Fb - 200+, Aug. 26, Gayford - JOR
Fc - 27, Sept. 9, Namaka Lake - HWP
1980. Sa - 200, April 21, Peace River - LUR (Roe & Basiuk 1980a)
Sc - 26, May 8, northeast of Westlock - CMM (Roe & Basiuk 1980a)
Fa - 620, Aug. 14, Hay-Zama Lakes - Roe & Basiuk (1980b)
Fb - 2,755, Aug. 18, Hay-Zama Lakes - Roe & Basiuk (1980b)
Fc - 50, Sept. 26, Coronation - BRA
- 6, Oct. 11, Hay-Zama Lakes - Roe & Basiuk (1980b)

Snow Goose *(Chen caerulescens)*

The Snow Goose is most common in the eastern half of the province during migration. The first spring birds arrive from late March to mid-April. Some spring migrants linger into late May. In 1972, 1976, and 1977 there were summer observations for this species.

In most years, the earliest fall migrants arrive in southern Alberta in mid-September. Peak numbers are observed in October with some flocks lingering to mid-November.

In the 1970's the number of reports of the "blue form" of this species has increased greatly from the 1960's.

See the introduction to Canada Goose for a hybridization record of that species with a Snow Goose.

1971. Sa - 500, April 18, Hussar - HAV
Sb - 48,000, May 9-13, Peace-Athabasca Delta - Hennan (1972)
Sc - 550, May 14, Stobart Lake - ROL, DVW
- 1, May 15, Beaverhill Lake - TSS
Fa - 30, Sept. 12, Coronation - ISS, DVW
Fb - 3,000, Oct 2, Chain Lakes near Hanna - CDB, RDB
Em - 10, Oct. 15, Miette River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 1, Oct 19, Calgary - RIP
1972. Sa - 4, March 23, Hussar - HWP, CAW
Em - 20, March 29, Maskinonge, Waterton Lakes N.P. - Sharp (1973)
- 30, May 6, Lac des Arcs - BIL, VGL
Sc - 2, June 13, Keho Lake - VGL, DVW
Eb - 2, July 24, Irricana - DVW
Fa - 8, Sept. 17, McGregor Lake - EWB
Fb - 25,200+, Oct. 7, Deadhorse Lake to Handhills Lake - WWS, CAW, CRW
Fc - 500, Nov. 18, Delacour - CFNS
1973. Sa - 2, March 15, Calgary - SCO
Sb - 15,000, May 5, Beaverhill Lake - GWG, LOG (Renaud 1973)
Sc - 2, May 19, Beaverhill Lake - GWG, LOG

Fa - 1, Aug. 18, Beaverhill Lake - LOG (Weseloh 1977d)
Fb - 10,000, Oct. 13, Hanna - ADB, CDB, JAH
Fb/Fc - 10,000, Oct. 30, Travers Reservoir - EWB
1974. Sa - 30, April 8, Edmonton - FRC
Sa/Sb - 15,000 to 20,000, April 7, Milo - EWB
Sc - 8, April 30, Rockyford - LIM, DVW
Fa - 1, Sept. 8, Beaverhill Lake - RIP
- 16, Sept. 8, Irricana - RUB
Fb - thousands migrating through Bindloss area, Nov. 11-13 - TSS
Fc - 75, Nov. 10, Chip Lake - WTC, BOF
- 500, Nov. 16, McGregor Lake - EWB
1975. Sa - 1, April 14, Aldersyde - GRW
Em - 1, May 12, Vermilion Lakes, Banff N.P. - Karasiuk (1976a)
Em/Sc - May 23, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fa - 300, 300, & 6; Sept. 21; Dowling Lake, Kirkpatrick Lake & Spondin respectively - RUB
- 78, Sept. 21, Syncrude lease - Ward et al. (1976)
Fb - 12,000 to 14,000, Oct. 28, McGregor Lake - EWB
Fc - 75+, Nov. 11, Pakowki Lake - HWP
- 1,000, Nov. 15, Little Bow Lake - BRA
1976. Sa - 8, April 13, Edmonton - EEM
Sc - 7, May 29, Youngstown - Butot (1976c)
Eb - 1, June 30, northwest of Dowling Lake - Weseloh (1977d)
Fa - several, Sept. 11, Ft. Chipewyan - JOK
- 2, Sept. 15, Galahad - KAS
Fb - 10,000, Oct. 31, McGregor Lake - RUB
Fc - 1,000, Nov. 14, McGregor Lake - RUB
1977. Sa - 6, March 27, Frank Lake - RUB
Sb - 950, April 8, McGregor Lake - RUB
Em - 2, April 26, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Sc - 1, May 2, Calgary - ANS
- 5, May 9, Bear Lake - ELC, GEC
Eb - 1 moulting yearling, July 22, Beaverhill Lake - Weseloh (1977d)
- 1, July 24, Lake Claire, Wood Buffalo N.P. - JOK
- 3 healthy adults, Aug. 5, Beaverhill Lake - Weseloh (1977d)
Fa - 1, Aug. 28, Frank Lake - RUB
Fb - 6,000, Sept. 14, Ft. MacKay - WWS
- 10,000, Oct. 9, Grassy Island Lake - BRA
Em - 33, Oct 27, Maskinonge, Waterton Lakes N.P. - FKC
Fc - 3,500+, Nov. 6, McGregor Lake - RUB
1978. Sa - 20+, March 31, Welling - BEH
Sb - 1,315, May 3, Hay-Zama Lakes - Gollop (1978)
Sc - small flock, May 14, Bruce Lake - CFNS
Fa - 1, Sept. 10, Namaka Lake - RUB
- 8, Sept. 11, Beaverhill Lake - MRB, DVW
Fc - 1 adult & 1 immature, Oct. 16, Bear & Saskatoon Lakes - ELC, GEC
- 2,500+, Oct. 22, McGregor Lake - CFNS
1979. Sa - 24 (10 white, 14 blue), April 15, Irricana - CLM
- 1, April 16, Wembley - ELC, GEC
Fa - 6, Sept. 9, Namaka Lake - HWP
Fb - thousands, Oct. 3, Kirkpatrick Lake - CAW
Fc - 1, Oct. 19, Bear Lake - ELC, GEC
1980. Sa - 1, March 29, Calgary - CFNS
Sb - 10,000, April 28, Ft. Chipewyan - GUL (Roe & Basiuk 1980a)
Sc - 110, May 5, Hanna - DOY (Roe & Basiuk 1980a)
- May 24/25, Ft. McMurray - Wiseley (1981)

Fa - 1, Sept. 2, Hay-Zama Lakes - Roe & Basiuk (1980b)
Fb - 33,622, Sept 24, Hay-Zama Lakes - Roe & Basiuk (1980b)
Fc - thousands, Nov. 11, Brooks - KCS (Roe & Basiuk 1980b)

Ross' Goose ***(Chen rossii)***

There are few records for the decade, and many of these are from outside the main staging area. It appears that late April and early May are the best times to observe this species during the spring. The little information that we have indicates that the Ross' Goose is a later spring migrant and earlier fall migrant than the Snow Goose. The second wintering record for Alberta was in 1979.

1971. Sb - 5,900, May 21-25, Peace-Athabasca Delta - Hennan (1972)
Fa - 2, Sept. 12, Coronation - ISS, DVW
1972. Sa - 2, May 5, Miquelon Lake - WWS, CAW, CRW
Sb - 106, May 7, Sieu & Deadhorse Lakes - WWS, CAW
Fb - 240, Oct. 7, Deadhorse & Little Fish Lakes - WWS, CAW, CRW
1973. Sa/Sb - 1,000 to 2,000, May 6, Beaverhill Lake - JIW
Sc - 3, May 22, Beaverhill Lake - DID
1974. Fa - 1, Sept. 7, Elk Island N.P. - JIW
1975. Sa - 1, April 26, Norfolk - RUB
1976. Fa - 50, Sept. 5, Grassy Island Lake - BRA
Fc - 5, Nov. 14, McGregor Lake - RUB
1977. Fa - 100, Sept. 14, Ft. MacKay - WWS
Fc - 50, Sept. 29, Youngstown - BRA
1978. Sa - 10-15, April 2, Stirling Lake - NOM
Sc - 1, June 4, Beaverhill Lake - DID
Fa - 1, Sept. 9, Langdon - HWP
1979. Ew - 1 immature, Dec. 2-27, Calgary - CFNS
1980. S - 1, May 10, Chestermere Lake - CFNS
Fc - 1, Oct. 4, Beaverhill Lake - PTS, TWT

Brant ***(Branta bernicla)***

Prior to this decade, the authors know of only five records for the province. The 1961 and 1967 records listed by Sadler & Myres (1976) are not included in Salt & Salt (1976). During the 1970's there are seven more records as listed below. All observations, except for one, occurred during the fall. Both color forms as well as intergrades have been reported. The May 8, 1978 observation is the first spring record for Alberta.

1971. Ev - 1 black form in a flock of Snow Geese, Oct. 17, Beaverhill Lake - DID (Houston 1972a)
1975. Ev - 3 (black form), Sept. 13, Ft. MacKay area - Francis & Lumbis (1979)
1976. Ev - 1, October, Hastings Lake - Serr (1977a)
- 3, October, Cooking Lake - Serr (1977a)
1978. Ev - 1, May 8, Beaverhill Lake - DID
- 2, Sept. 10, Beaverhill Lake - ROS
1980. Ev - 3 adults & 2 immatures, late September, Lacombe - HAW (skeleton of one bird is in the PMA collection)

Canada Goose *(Branta canadensis)*

The Canada Geese which nest in southern Alberta usually arrive in early March. The smaller northern races pass through in peak numbers in April, primarily across eastern Alberta. In late May and early June, non-breeding Canada Geese move through southern Alberta on their way to northern moulting grounds. In the fall the majority of Canada Geese leave Alberta by mid to late November, but there are wintering records for Calgary, Edmonton, Wabamun Lake, Lethbridge, and Waterton Lakes National Park.

Kondla (1973a) observed goslings leaving a Ferruginous Hawk nest, and Giroux (1980) reports overland travel by Canada Goose broods near Brooks, Alberta. Ealey et al. (1979) describe a Canada Goose x Snow Goose hybrid seen at Beaverhill Lake on April 8, 1979. During the decade there are also observations of hybrids between Canada Geese and domestic geese. These hybrids continue to be reported in the 1980's.

1971. Ew - 1, Jan. 7, Edmonton - RWS
Sa - 4, March 19, Calgary - NCB, KSC, DVW
B - 1 adult on old Osprey nest, May 22, Banff N.P. - TSS
Fb - 500, Sept. 21, Youngstown - DVW
Fc - 25, Nov. 23, Calgary - RIP
1972. Sa - 1, March 4, Calgary - DNM
Sb - 300+, April 1, Namaka Lake - CAW
Mp - 90, May 29, Cheadle - TSS
Fb - 400, Oct. 7, Rolling Hills Lake - ADB, CDB
Fc - 6, Nov. 28, Calgary - VGL
1973. Sa - 200, March 6, Calgary - BJJ
Sb - 50,000, April 1, Beaverhill Lake - DID, LOG
Mp - 246 adults, May 28, Keho Lake - VGL
Fb - 500-600, Oct. 15, Frank Lake - DPD
Fc - 125, Nov. 11, Calgary - BIL, VGL
W - 4, Dec. 16, Calgary - JIM
Ew - 1, Dec. 16, Edmonton - Christmas Bird Count
1974. Sa - 19, March 13, Carseland - VGL, CAR
Sb - 30,000, April 25-28, Beaverhill Lake - GWG, LOG
Mp - 35, May 22, Bottrel - HWP, CAR
- 70, May 30, Cheadle - TSS
Fb - 590, Nov. 8, Calgary - ANM
Fc - 80, Nov. 28, Calgary - HWP
- 26, Dec. 2, Knights Lake, Waterton Lakes N.P. - KEB
1975. Ew - 52, Jan. 4, Waterton Lakes N.P. - BOE
- 550, flying south, Jan. 5, Waterton Lakes N.P. - KEB
Sa - 15, March 14, Nanton - DOT
- 5, March 14, Aldersyde - GRW
Sb - 10,000, April 22, Tofield - DID
B - 400 (many immatures), Aug. 6, Milk River Ridge Reservoir - RUB
Fb - 10,000, Sept. 22, Hanna - JWJ, JAL, MCM
Fc - 500, Nov. 27, Waterton River, Waterton Lakes N.P. - KEB
Ew - 1, Dec. 26, Waterton River, Waterton Lakes N.P. - KEB
1976. Sa - 2, March 17, Calgary - GES
Sb - 5,000, April 4, Beaverhill Lake - BRB, JER
Mp - 120, May 23, Delacour - RUB
- 40-60, May 28, Calgary - FRM
- 34, June 2, Calgary - BIL
- 60, June 5, Calgary - LEH
Fb - 3,700, Oct. 9, Empress - DVW, LIW
Fc - 26, Nov. 24, Calgary - ANM

Ew - 25, Dec. 9, Waterton Lakes N.P. - KEB
- 9, Dec. 18, Wabamun Lake - Christmas Bird Count
W - 39, Dec. 19, Calgary - Christmas Bird Count
1977. Ew - 2, Jan. 11, Waterton Lakes N.P. - KEB
W - 6, Jan 22, Calgary - RUB
Ew - 2 flocks of 30, Jan. 22, Edmonton - BRD
Sa - 1, March 7, Frank Lake - GRW
Sb - 1,200, April 3, Frank Lake - GRW, GOW
Fb - 1,500, Nov. 5, Calgary - PES
Fc - 300-400, Nov. 20, Waterton Lakes N.P. - JHT
W - 43, Dec. 27, Calgary - Christmas Bird Count
1978. Sa - 12, March 7, Lethbridge - MIO, BWP
- 28, March 7, Calgary - KAM
Sb - 10,000+, April 1 & 8, Beaverhill Lake - DID
- 1,106, May 11, Ft. McMurray - BRW
Fb - 2,500, Nov. 9, Waterton Lakes N.P. - SIL
Fc - 50+, Nov. 26, Calgary - CFNS
W - 120, Dec. 31, Calgary - BSD
1979. Sa - 1, March 9, Grande Prairie - YVM
Mp - 36, June 2, Bottrel - SFJ
Fb - 500+, Sept. 2, Pageant - RUB
W - 50, Dec. 16, Calgary - Christmas Bird Count
Ew - 113, Dec. 26, Lethbridge - Christmas Bird Count
1980. W - 10-15, Jan. 3-Feb. 27, Calgary - OLD
Sa - 50, March 12, Calgary - OLD
Fb - 2,632, Sept. 5, Hay-Zama Lakes - Roe & Basiuk (1980b)
Fb/Fc - 2,000, Nov. 29, Lake Newell - BRA
W - 12, Dec. 21, Calgary - Christmas Bird Count

Wood Duck *(Aix sponsa)*

The fact that this species has been introduced into Alberta on several occasions has made it difficult to assess its status. Alberta does not appear to be within the Wood Duck's regular range, and as a result, it occurs sporadically. However, it appears to have become more widespread than the Banff-Calgary range as outlined by Godfrey (1986) and Sadler & Myres (1976). There are records for Alberta for every year of the decade. There are two winter records and only one breeding record for the decade.

Newell & Cooch (1980) report that 19 birds were banded in Alberta between 1918 and 1978.

1971. Em - 1 male, May 12, Waterton Lakes N.P. - Sharp (1973)
1972. Em - 1 male, April 28, Burnstick Lake - RIK
- 1 pair, May 14, Lonesome Lake, Waterton Lakes N.P. - Sharp (1973)
- 1 male, May 15 & 16, Lacombe - BIL, VGL
Eb - 2 males & 1 female, June 17, Lacombe - GEA, WEB
- 1 male in eclipse plumage, July 9, Beaver Mines Lake - BIL, VGL
Ew - 1 female, Dec. 11, Calgary - VGL
1973. Eb - 1 female, June 26, Millarville - VGL
Em - 1 female, Oct. 8, Calgary - BIL, VGL
1974. Em - 1 male, Nov. 25, Millarville - PMA specimen
1975. Em - 1 female, April 15, Crooked Creek, Waterton Lakes N.P. - KEB
- 1 male (apparently courting a female Mallard), May 7, Red Deer - Weseloh & Weseloh (1975b)
Eb - 1 female, Aug. 18, Vermilion Lakes, Banff N.P. - GRW

1976. Em - 1 female, April 10, Condor - BIK, LAR
- 1 pair, April 11, Cochrane - BOF
- 1 pair, April 20, Pocahontas, Jasper N.P. - Holroyd & Karasiuk (1977)
- 3 females & 1 male, April 21, Banff N.P. - Holroyd & Van Tighem (1983)
- 1 female, May 15, Calgary - EDB, EGB
- 1, Aug. 26, Five Lakes, Jasper N.P. - Holroyd & Karasiuk (1977)
- 1 female/immature, Aug. 30, Bow Valley P.P. - WWS
Ew - 4, Dec. 19, Edmonton - Christmas Bird Count
1977. Em - 1 pair, April 29, Calgary - ANM
- 1 male, May 18, Ft. McMurray - Gulley (1983a)
Eb - 1 male, June 25, Water Valley - CAG, ROG, JMP
1978. Em - April 7, Banff N.P. - Holroyd & Van Tighem (1983)
- 2, May 28, Banff N.P. - Wiseley (1979b)
Eb - 1 female, June 26, Whirlpool River, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1 female & 5 young, July 3, Forty Mile Creek, Banff N.P. - Holroyd & Van Tighem (1983)
1979. Em - 1 pair, May 17, Medicine Hat - GRG, PAG
Eb - 1 male, July 19, Jasper N.P. - Holroyd & Van Tighem (1983)
1980. Em - 1, May 3, Beaverhill Lake - RAE
Eb - 1 male, June 8, Brooks - KAP, MAW

Green-winged Teal *(Anas crecca)*

The first spring migrants generally arrive in southern Alberta at the end of March. Francis & Lumbis (1979) report the spring arrival in the Ft. MacKay area to be May 1.

From 1971 to 1980, Turner & Weaver (1980) recorded a southern Alberta breeding population ranging from 222,300 to 404,800.

Most Green-winged Teal have left southern Alberta by the end of October, with some lingering into winter. There was an interesting fall peak record for Jasper National Park in 1979.

Although we have listed winter records as "Ew", data indicates that Green-winged Teal regularly winter in some areas in Alberta.

1971. Sa - 6, April 9, Strathmore - ISS, TSS
Fb - 33, Oct. 17, Calgary - CFNS
Fc - 1, Nov. 7, Calgary - HAV
1972. Sa - 2 males & 1 female, March 19, Carseland - GEA, WEB, BIL, VGL
Sb - 90-100, May 6, Lac des Arcs - BIL, VGL
Fc - 1 female, Nov. 24, Canmore - BIL, VGL
1973. Ew - 8, Feb. 25, Calgary - RIP, DAS
Sa - 2 males, March 25, Brant - BIL, VGL, RIP, GRW
Sb - 150, April 20, Tofield - BEB, GEB, JIW
B - 1 male, June 26, 24 km west of Longview - VGL
Fc - 6, Oct. 27, Beaverhill Lake - LOG
Ew - 4, Dec 30, Calgary - Christmas Bird Count
1974. Ew - 3, Jan. 20, Calgary - WWS
- 4 females, Feb. 15, Canmore - SCO, RIP
Sa - 1 male, March 31, McGregor Lake - LIM, DVW
- 2, April 9, Nisku - JIW
Sb - 42, April 13, Rockyford - LIM, DVW

Fc - 12, Oct. 27, Chestermere Lake - HAV
1975. Sa - 1 male, March 30, Calgary - RIP, DVW
- 2, April 1, Jasper N.P. - SRJ
Sb - 40+, April 24, Frank Lake - HWP, CAR
Fb - 28, Oct. 26, Irricana - RUB
Fc - 1 male, Nov. 9, Carseland - RUB
- 1 male, Nov. 9, Wabamun Lake - RAE, DAP
Ew - 4, Dec. 27, Banff - Christmas Bird Count
- 1, Dec. 28, Calgary - Christmas Bird Count
1976. Ew - 4 females, Jan. 17, Canmore - WWS
Sa - 2, March 30, Cheadle - TSS
- 2, April 1, Devona - SRJ
Sb - 300+, April 18, Frank Lake - RUB
Fb - 60, Oct. 31, McGregor Lake - RUB
Fc - Oct 27, Ft. McMurray - Gulley (1979)
- 3, Nov. 3, Carseland - RUB
Ew - 13, Dec. 13, Calgary - WWS
- 3, Dec. 18, Wabamun Lake - Christmas Bird Count
- 2, Dec. 19, Calgary - Christmas Bird Count
- 5, Dec. 19, Banff - Christmas Bird Count
1977. Ew - 3 females, Feb. 27, Galahad - JSS, KAS, DVW, LIW
Sa - 3 males & 2 females, March 26, Frank Lake - GRW
Sb - 74, May 9, Banff N.P. - Holroyd & Gartshore (1978)
Fb - 200+, Aug. 27, Irricana - RUB
Ew - 5, Dec. 17, Banff - Christmas Bird Count
- 5, Dec. 27, Calgary - Christmas Bird Count
- 1 male & 3 females, Dec. 29, Canmore - GRW
1978. Sa - 2, April 2, Calgary - ANS
Fc - 1 female, Nov. 26, Calgary - CFNS
Ew - 5, Dec. 17, Banff - Christmas Bird Count
- 1, Dec. 17, Calgary - Christmas Bird Count
1979. Sa - 5, April 8, Carseland - RUB
Sb - hundreds, April 23, Bear Lake - ELC, GEC
Fb - 300, Aug. 25, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Ew - 5, Dec. 16, Calgary - Christmas Bird Count
- 1, Dec. 16, Edmonton - Christmas Bird Count
1980. Ew - 1 female, Jan. 3, Calgary - OLD
- 3 males, Jan. 20, Calgary - ANS
Sa - 1, April 12, Strathmore - TSS
Fc - 1 male & 3 females, Nov. 14, Calgary - OLD
Ew - 3, Dec. 20, Banff - Christmas Bird Count
- 3, Dec. 21, Calgary - Christmas Bird Count

American Black Duck *(Anas rubripes)*

There are many records for this species in the 1970's as compared with two records for the 1960's. Most of these are winter records for the Calgary area. This is interesting because these observations are apparently the first winter records for the province. There are only five summer reports. Sadler & Myres (1976) erroneously report the first nesting at Hanna in 1963. Salt & Wilk (1966) report a nesting record from near Kelsey in 1950. The only definite nesting for the decade comes from Calgary in 1973. Due to low numbers of American Black Ducks, females that have produced broods may have mated with Mallards. This is suggested by the number of hybrids that have been reported (see page 56).

Newell & Cooch (1980) list the number of waterfowl banded in Canada from 1918 to 1978. In Alberta, 41 American Black Ducks were banded during this period. Francis & Lumbis (1979) state that an American Black Duck banded in the Peace-Athabasca Delta was recovered in Mississippi.

1971. Ew - 2, Dec. 6, Calgary - WWS
1972. Em - 1, April 16, Calgary - HAV
Ew - 1, Dec. 12, Calgary - WWS
- 2 males & 1 female, Dec. 19, Calgary - VGL
1973. Eb - 1 female with 6 young, May 16, Calgary - HAV
1974. Ew - 1, Jan. 24 to March 21, Calgary - HWP, CAR
Eb - 1 female with 8 young, June 14, Calgary - BIL
- 1, Aug. 30, Calgary - HWP
Ew - 1, Dec. 4 & 29, Calgary - LIM, DVW
- 1, Dec. 19 to Jan. 18, Edmonton - JOA, BEB, GEB, GRG, PAG, MAM, PAM, LAP, RIP, ERT, JIW
1975. Em - 1 female, April 14, Calgary - BIL
- 1 adult banded, Sept. 13, Peace-Athabasca Delta - Canadian Wildlife Service (1978)
- 1 adult shot, Sept. 20, Burns Lake - AUM
1976. Em - 1, Aug. 25, Ft. Chipewyan - RAE
1977. Ew - 1 male, Jan. 24 to Feb. 7, Calgary - DPD, HWP
Em - 2, March 26, Calgary - BOF, DAR
- 1 male, Sept. 17, Calgary - PES
- 1, Oct. 19, Beaverhill Lake - ETJ
Ew - 1 male, Nov. 29, Calgary - KAD
1978. Ew - 1, Jan. 21, Calgary - BRA
Eb - 1 male, July 2, Saskatoon Lake - GEC, JVL
Em - 1 female, Nov. 12, Calgary - DPD
1979. Ew - 1 female, Jan. 4, Calgary - HWP
- 1, Jan 22, Calgary - HWP
Em - 1 male, April 18, Irricana - CLM
Eb - 1, May 26/27, Buffalo Lake - Wiseley (1980a)
Ew - 1, winter 1979/80, Calgary - Harris (1980b)
1980. Eb - 1 male, May 13 to July 18, Ft. McMurray - Gulley (1983a)
Em - 1, Sept. 22, Calgary - PES

Mallard *(Anas platyrhynchos)*

This species winters wherever food and open water are available. In addition to wintering areas known for the 1960's, Mallards now occur at Waterton Lakes National Park, Scandia, Galahad, Nevis, Nordegg and Ft. McMurray.

Turner & Weaver (1980) estimated waterfowl breeding populations in southern Alberta. In 1974 puddle duck numbers were estimated at 6,912,000 - the highest during the decade. Mallards comprised 22% of this total. In 1977, puddle duck numbers were down to 3,085,700 (45% of 1974 numbers). 1977 was the third consecutive year of drought conditions in the grasslands, and there was a corresponding overflight of puddle ducks into northern regions.

During the decade there are records of Mallards hybridizing with American Black Ducks and Northern Pintails (see page 56).

1971. W - 1,750, Jan 4, Calgary - DVW
- 150, Jan. 26, Wabamun Lake - Houston (1971a)
Fb - 3,000, Oct. 7, Frank Lake - CDB, RDB
W - 1,628, Dec. 27, Calgary - Christmas Bird Count

1972. Fb - 4,000, Oct. 5, Frank Lake - CDB
W - 10,000, Dec. 13, Calgary - WWS
- 67, Dec. 17, Edmonton - Christmas Bird Count
- 30, Dec. 24, Nevis - GRG, PAG
1973. W - 5,500, Feb. 8, Calgary - VGL, CAR
Fb - 30,000, Oct. 3, Beaverhill Lake - LOG
W - 100, Dec. 15, Cold Lake - Christmas Bird Count
- 6, Dec. 21, Jasper - Christmas Bird Count
- 25, Dec. 24, Edmonton - GWG, LOG
- 2,500, Dec. 30, Calgary - Christmas Bird Count
1974. W - 6, Feb. 8, Elk Creek, 88 km south of Nordegg - LYD
Sb - 2,000, April 25, Beaverhill Lake - LOG
Fb - 3,000, Nov. 11, Eagle Lake - RUB
W - 5,000, Dec. 6, Cheadle - TSS
- 5, Dec. 13, Waterton Lakes N.P. - KEB
6, Dec. 14, Jasper - TSS
1975. W - 50, Jan. 5, Edmonton - LAP, ERT
- 85, Dec. 14, Edmonton - RIP
- 2,410, Dec. 28, Calgary - Christmas Bird Count
- 61, Dec. 28, Galahad - KAS
1976. Fb - 4,000, Nov. 14, Mazeppa - GRW
W - 5,000, Dec. 13, Calgary - WWS
- 2,110, Dec. 18, Wabamun Lake - Christmas Bird Count
- 8, Dec. 20, Edmonton - SAJ
1977. W - 400-500, Jan. 2, Scandia - TSS
- 12, Jan. 16, Waterton River, Waterton Lakes N.P. - KEB
- 250, Feb. 15, Galahad - KAS
Fb - 3,500+, Nov. 6, McGregor Lake - RUB
W - 692, Dec. 17, Wabamun Lake - Christmas Bird Count
- 1, Dec. 26, Waterton Lakes N.P. - Christmas Bird Count
- 4,086, Dec. 27, Calgary - Christmas Bird Count
1978. Fb - 6,000, Nov. 10, Knights Lake, Waterton Lakes N.P. - SIL
W - 1, Dec. 17, Ft. McMurray - Christmas Bird Count
- 10,078, Dec. 17, Calgary - Christmas Bird Count
- 1,245, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. W - 7,972, Dec. 16, Calgary - Christmas Bird Count
- 1,031, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. W - 2,182, Dec. 21, Calgary - Christmas Bird Count
- 5,000 (feeding in field), Dec. 29, Black Diamond - BRA

Northern Pintail *(Anas acuta)*

The Northern Pintail was one of the few duck species that occurred in spectacular flocks in the spring. This species generally arrives in southern Alberta in mid-March. Francis & Lumbis (1979) report an arrival date of April 22 for the Ft. MacKay area. Holroyd & Van Tighem (1983) record the peak of spring migration for Banff and Jasper National Parks as the last half of April.

Turner & Weaver (1980) estimated the number of Northern Pintails in southern Alberta in 1974 to be 2,123,000 (30% of the total puddle duck numbers). In the drought year of 1977, numbers were estimated at 345,700 (11% of total puddle duck numbers). Neither Holroyd & Van Tighem (1983) nor Sharp (1973) report nesting from the three mountain National Parks.

Most Northern Pintails leave southern Alberta by the end of September. Francis & Lumbis (1979) report that the majority of fall migrants pass through the Ft. MacKay area on August 19 and 20.

Northern Pintails have been recorded during the winter every year except 1975. Reports are from Lethbridge, Calgary, Banff National Park, Jasper National Park, and Wabamun Lake.

Northern Pintail x Mallard hybrids were reported during the decade (see page 56).

1971. Sa - 2 males, March 19, Calgary - NCB, KSC, DVW
Sb - 3,500, April 6, Carseland - WWS
Fc - 30+, Oct. 16, Calgary - RIP
Ew - 1 male & 2 females, Dec. 4, Calgary - HAV
1972. Sa - 2 males & 1 female, March 3, Shepard - BIL, VGL
Sb - 8,000 to 10,000, March 28, Shepard - VGL
Fb - 250, Oct. 22, Chestermere Lake - HAV
Fc - 1, Nov. 18, Hastings Lake - LOG
- 1 female, Nov. 24, Lac des Arcs - BIL, VGL
Ew - 1 male, Dec. 23-30, Calgary - BIL, WWS
- 1, Dec. 31, Wabamun Lake - LOG
1973. Ew - 1 female, Feb. 8, Calgary - VGL
- 1, Feb. 18, Wabamun Lake - GWG, LOW, POW
- 1 male, Feb. 23, Calgary - BIL
Sa - 150, March 16, Cayley - VGL
- 336, March 16, Frank Lake - VGL
Sb - 5,000 to 10,000, March 20, Blackie - VGL
Sc - 400, April 22, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 10,000, Sept. 22 to Oct. 3, Beaverhill Lake - LOG
Fc - few, Nov. 1, Hay-Zama Lakes - AJM
- 2, Nov. 4, Miquelon Lake - LOG
Ew - 1 male, Dec. 2, Calgary - RUB
- 1, Dec. 21, Jasper - Christmas Bird Count
1974. Ew - 1 male, Feb. 17, Calgary - HWP, LIP
Sa - 8, March 18, Maskinonge, Waterton Lakes N.P. - KEB
Sb - 30,000, April 15, Tofield - STJ
Fb - 949, Sept. 23-26, Hay-Zama Lakes - Gunn et al. (1975)
Fc - 2, Nov. 23, Wabamun Lake - WAR, ERT
1975. Sa - 4 males & 1 female, March 16, Carseland - RUB
Fc - 1 female, Nov. 26, Calgary - HWP
1976. Sa - 100+, March 19, Connemara - HWP
Sb - 8,000, March 28, Ensign - RUB
Fc - 1 male & 1 female, Nov. 19, Calgary - HWP
- 8, Nov. 21, Miquelon Lake - GHF, WWS
Ew - 1 male, Dec. 9 & 13, Calgary - WWS
- 5, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Sa - 120, March 6, Frank Lake - GRW
Sb - 60,000, March 31, Frank Lake - GRW
Fb - 1,400, Nov. 6, McGregor Lake - RUB
Fc - 150, Nov. 13, Frank Lake - GRW
Ew - 1, Dec. 17, Wabamun Lake - Christmas Bird Count
1978. Ew - 1 male, Feb. 5, Calgary - PES
Sa - 12, March 19, Pekisko - RUB
Fb - 400+, Oct. 9, Milk River - RUB
Fc - 1 male, Nov. 29, Calgary - RUB
Ew - 2, Dec. 24, Wabamun Lake - Christmas Bird Count

1979. Sa - 17, March 11, Frank Lake - BIL, VGL
Sb - 1,000+, March 24, Brant - RUB
Fc - 1 pair, Nov. 18, Calgary - ANS
Ew - 1, Dec. 16, Banff - Christmas Bird Count
- 3, Dec. 23, Wabamun Lake - Christmas Bird Count
- 1, Dec. 26, Lethbridge - Christmas Bird Count
1980. Ew - 1 male, Jan. 20, Calgary - ANS
Sa - 8, March 25, Calgary - OLD
Sb - 5,000+, April 13, Calgary to Rosebud - ANS
Fc - 2, Nov. 16, Eagle Lake - ANS
Ew - 1 male, Dec. 11, Calgary - OLD
- 1, Dec. 21, Calgary - Christmas Bird Count

Garganey *(Anas querquedula)*

There are three spring records of this species for Alberta. The first observation was reported by Sugden (1963). It was of a single bird observed near Two Hills from June 22 to 24, 1961. This observation has been erroneously reported by Sadler & Myres (1976) as a May observation, and by Godfrey (1986) as June 24 to 26, 1961. Sugden (1963) assumes that the bird was an escapee, while Koes (1971) states that the Garganey regularly occurs close to North America and wanders widely.

The first authenticated record was of a male photographed near Galahad on May 7, 1977.

1977. Ev - 1 male, photographed, May 7, Galahad - JSS, KAS

Blue-winged Teal *(Anas discors)*

This species usually arrives in southern Alberta in the last two weeks of April. Francis & Lumbis (1979) report the arrival date in the Ft. MacKay area to be May 2. The 1977 spring record for Ft. McMurray is very early.

Turner & Weaver (1980) report that the range of Blue-winged Teal numbers in southern Alberta (1971-1980) varied from 393,300 to 1,209,700. The highest population was for 1974, a year in which this species was the third most numerous puddle duck.

Most Blue-winged Teal leave southern Alberta by the end of September, with a few lingering into early November.

The five winter records for the decade are highly unusual and apparently the first for the province.

Hybrids of this species and Cinnamon Teal are recorded on page 56.

1971. Sa - 1 pair, April 25, Strathmore - ISS, TSS
Fb - 30, Oct. 7, Frank Lake - CDB, RDB
Fc - 5, Oct. 17, Calgary - CFNS
1972. Sa - 1 male, April 19, Chestermere Lake - CAW, CRW
Sb - 20+, May 7, Indus - HWP
Fb - 35, Sept. 21, Maskinonge, Waterton Lakes N.P. - Sharp (1973)
Fc - 6, Oct. 5, Frank Lake - CDB
1973. Sa - 1 pair, April 7, Lethbridge - HES
- 1 pair, April 8, Tofield - GWG, LOG

Sb - 24, May 13, Calgary - DPD
Fc - 6, Oct. 21, Beaverhill Lake - LOG
Ew - 1 female, Dec. 30, Calgary - Christmas Bird Count
1974. Sa - 1 male, April 17, Barrhead - BIL, VGL
Sb - 60, May 8, Irricana - RUB
Fb - 816, Sept. 23-26, Hay-Zama Lakes - Gunn et al. (1975)
Fc - 1 female, Nov. 8, Calgary - BOC, HWP
1975. Sa - 1 male, April 24, Connemara - HWP, CAR
- 1 male, April 27, Edmonton - RIC
Fc - Oct. 5, Mildred Lake - Sharp & Richardson (1976)
1976. Sa - 1 male, April 11, Connemara - HWP
Sb - 16, May 2, Connemara - RUB, JIM
Fc - 3 males & 1 female, Nov. 7, Eagle Lake - JOD, JMP
1977. Sa - April 9, Ft. McMurray - Gulley (1979)
- 1 male, April 20, Calgary - CAO
Sb - 80, April 30, Frank Lake - RUB
Fb - 21, Sept. 17, Dalroy - HWP
Fc - 3, Oct. 3, Calgary - HWP, JOR
Ew - 1, Dec. 17, Wabamun Lake - Christmas Bird Count
1978. Sa - 1 female, March 19, Pekisko - RUB
Sb - 40, May 6, Namaka Lake - RUB
Fc - 1 male, Oct. 28, Frank Lake - MIR
Ew - 2, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. Sa - 1 pair, April 22, Calgary - CAO
Ew - 3, Dec. 16, Banff - Christmas Bird Count
1980. Ew - Feb. 7, Rocky Forks, Jasper N.P. - Holroyd & Van Tighem (1983)
Sa - 1, April 14, Calgary - RAW
Sb - 50, May 18, Chestermere Lake - ANS
Fb - 20, Sept. 20, Calgary - FAN
Fc - 2, Nov. 8, Calgary - RAW, DEW

Cinnamon Teal *(Anas cyanoptera)*

In the 1970's, this species continued to expand its range in Alberta. Associated with this was a dramatic increase in numbers of birds, a trend which has continued into the 1980's. The most northerly records for the province were from Lesser Slave Lake, McClelland Lake, Ft. McMurray and the Grande Prairie area. Most Cinnamon Teal arrive in southern Alberta during the last half of April.

Salt & Salt (1976) state that this species is a scarce transient in the mountains at Banff and Jasper National Parks. Sadler & Myres (1976) refer to a possible nesting record for Waterton Lakes National Park. Sadler & Myres (1976) also state that this species "nested" at Banff National Park. However, Holroyd & Van Tighem (1983) state that there are no nesting records for Banff and Jasper National Parks. During this decade, the authors know of no definite nesting record for the province. Also, there are only two fall records. The lack of nesting records and fall observations is due to identification problems between this species and Blue-winged Teal.

Hybrids of this species and the preceding species are recorded on page 56.

1971. Sa - 2 males & 1 female, April 24, Shepard - ROL, DVW
Eb - 1 male, May 14, Edmonton - WWS
- 1 male, May 30, Morinville - GOG
B - 8 males, June 22, Frank Lake - IRH, NOH
1972. Sa - 1 pair, April 14, Frank Lake - VGL

Eb - 1 male, May 15, Red Deer - VGL
- 5, May 20-22, Edmonton - GRG, MAH
- 1, May 30, Stettler - LML
- 1, June 2, Lesser Slave Lake - GRG
- 1 male, June 8, Miquelon Lake - DVW
- 1 pair, June 14, Dry Island Buffalo Jump P.P. - WWS

1973. Sa - 1, April 1, Beiseker - BEB, GEB
Em - 1 pair, April 29, Seebe - CFNS
Eb - 1 male, May 2, Edmonton - TWT
- 1 pair, May 5-15, Beaverhill Lake - DID, GWG, LOG, JIW
- 1 male, May 6, Millarville - CAP, DOP
- 1 male, May 18, Lamont - ANC
- 2, May 20, Mundare - GWG, LOG
- 1 pair, May 20, Herbert Lake, Banff N.P. - CAF, JOF, WAF
- 1 pair, May 21, Ardrossan - GWG, LOG
- 6 males & 2 females, May 21, Frank Lake - HWP, LIP
- 1 pair, May 27-29, Bittern Lake - ETJ
- 1, June 9, Kootenay Plains - WAF
- 1 male, June 21, Sturgeon Lake - KVT, CAW

1974. Sa - 1 pair, April 20, Conrich - RUB
- 1 pair, April 20, Frank Lake - EWB, LIM, DVW
Eb - 2-5, May 4 to June 15, Beaverhill Lake, GWG, LAK, LIM, RIP, DVW, JIW
- 2 pairs, May 10, Lake Newell - WPN, DVW
- 1 male, May 13, Nanton - GRG
- 1 pair, May 17, Brooks - GWG, LOG
- 1 male, May 24, Bashaw - GRG, PAG
- 1 male, late May, Little Fish Lake - Wallis & Wershler (1985)
- 1 pair, June 5, Vermilion Lakes, Banff N.P. - ANC, URM
- 2 males, June 9, Botha - GRG, PAG, DVW, LIW (Weseloh & Weseloh 1979)

1975. Sa - 1 male, April 24, Connemara - HWP, CAR
Eb - 1, May 4, Hay Lakes - ELP, JAP
- 1 pair, May 9, Bittern Lake - ETJ
- 1, May 18, Tofield - DID
- 1 pair, May 27, Cooking Lake - STJ
B - 8 males & 3 females, June 8, Frank Lake - KSC, JOD

1976. Sa - 2 males, April 11, Frank Lake - WWS
Eb - 2, May 2, Miquelon Lake - KWT
- 1 male, May 3 & 4, St. Albert - LUB, DVW
- 3 males & 1 female, May 6, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
- 1 pair, May 11, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
- 1 pair, May 12, Red Deer - GIF, ANW
- 1 male, May 12, Beaverhill Lake - TWT, ALW
- 3 males & 2 females, May 20, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
- 8, May 23, Enchant - LAH, DIS
- 1 male, May 26, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
- 3 males, May 28, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
- 1 pair, June 1, McClelland Lake - Francis & Lumbis (1979)
- 1 male, June 3, Grande Prairie - TOG
- 1 male, June 4, Cardston - DIS, HUS
- 1, June 12, Miquelon Lake - JAT, KWT
- 1 pair, June 15, Miquelon Lake - CRW

- 2 males & 1 female, June 16, Spondin - REG
Em - 1, Sept. 9, Banff N.P. - Holroyd & Van Tighem (1983)
1977. Sa - 1 pair, April 8, Frank Lake - GRW
Em - April 23, Pocahontas, Jasper N.P. - Holroyd & Van Tighem (1983)
- April 29, Banff N.P. - Holroyd & Gartshore (1978)
Eb - 1 pair, May 1, Beaverlodge - AUA, KAA
- 1 pair, May 1, Kingman - JAT, KWT
- 2 males & 1 female, May 9, Cooking Lake - KWT
- 2 pairs, May 10, St. Albert - LUB
- 10, May 12, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 1 male, May 20, 37 km north of Red Deer - EVC, JLC
- 2 pairs, May 25, Bittern Lake - ETJ
Fc - 2 males & 2 females, Sept. 28, Sounding Lake - WWS, CAW
1978. Sa - 1 male, April 23, Langdon - WIH
- 1 pair, April 23, Chestermere Lake - JOR
Eb - 1 male, May 17, Wandering River - Ebel (1978b)
- 1 male, May 19, Banff N.P. - BRW
- 1 pair, May 21, Hay Lakes - RUB
- 1 male, June 21, Kootenay Plains - NGK (Wallis & Wershler 1981b)
1979. Sa - 3 pairs, April 29, Calgary - CAO
Em - 1 pair, April 30, Lesser Slave Lake - Bradley (1980a)
Eb - 1 pair, May 18, Waterton Lakes N.P. - WWS
- 1 pair, May 22, Bittern Lake - ETJ
- 1 male, June 19, Ft. McMurray - Gulley (1983a)
1980. Sa/Em - 2, April 25, Beaverhill Lake - ARS
Eb - 1 male, May 14, Bittern Lake - ETJ

Northern Shoveler *(Anas clypeata)*

This species usually arrives in southern Alberta in late March and early April. Francis & Lumbis (1979) report arrival in the Ft. MacKay area to be May 6.

Turner & Weaver (1980) report that the number of Northern Shovelers in southern Alberta between 1971 and 1980 ranged from 220,800 to 588,000 (8.5% of total puddle duck numbers). Holroyd & Van Tighem (1983) do not record any nesting for Banff or Jasper National Parks. The 1977 observation from Sunshine Meadows, Banff National Park is noteworthy because of the unusual habitat.

Most Northern Shovelers leave southern Alberta by the end of September, while some linger into early November.

Apparently the first winter records for the province are from Wabamun Lake in the late 1970's.

1971. Sa - 5, April 9, Strathmore - ISS, TSS
Fb - 100, Sept. 12, Chestermere Lake - WIH, WGM
Fc - 1 female, Nov. 11, Calgary - RIP
1972. Sa - 2 males, March 18, Carseland - BIL, VGL
Sb - 115 males & 41 females, May 11, Janet - DVW
Fc - 1 female, Nov. 15, Calgary - HWP, CAR
1973. Sa - 3 males & 1 female, March 25, Brant - BIL, VGL, RIP, GRW
Sb - 70, April 15, Frank Lake - SCO
Fb - 65, Oct. 28, Miquelon Lake - LOG
Fc - 1, Nov. 4, Miquelon Lake - LOG

1974. Sa - 2, April 9, Calgary - TSS
- 1 male, April 9, Aldersyde - GRW
- 2 pairs, April 13, Ryley - BEB, GEB, JIW
- 1 pair, April 13, Edmonton & Hanna - GWG, LOG, TWT

Sb - 200, April 15, Nanton - DPD
Fb - 1,370, Sept 23-26, Hay-Zama Lakes - Gunn et al. (1975)
Fc - 1 female, Dec. 3, Calgary - HWP
1975. Sa - 1 pair, April 2, Edmonton - DVW
Fb - 30+, Sept. 6, Namaka Lake - HWP
Fc - Oct. 24, Syncrude lease - Sharp & Richardson (1976)
- 12, Oct. 31, McGregor Lake - RUB

1976. Sa - 1 female, March 17, Galahad - KAS
- 1 male, March 28, Ensign - RUB
- 12, March 28, Wabamun Lake - BIK, GFS

Sb - 61, May 11, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 70, Aug. 25, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 2, Nov. 3, Grande Prairie - DVW
- 5, Nov. 7, Eagle Lake - JOD, JMP

Ew - 1, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Ew - 1 female, Feb. 5, Wabamun Lake - CSS, IKS, JKS, OSS
Sa - 1 male, March 31, Frank Lake - RUB
Sb - 120, April 16, Irricana - RUB
B - 2 females, Aug. 7, Sunshine Meadows, Banff N.P. - GRW (in pond above Sunshine in alpine meadow)
Fb - 100's, Oct. 3, Kirkpatrick Lake - CAW
Fc - 1 female, Oct. 21, Calgary - PES
1978. Sa - 2 pairs, March 20, Bear Lake - GEY, WIY
- 5, March 28, Lyalta - LOB, BIL

Sb - 60, April 29, Namaka Lake - RUB
Fc - Oct. 25, Ft. McMurray - Gulley (1979)
- 4, Nov. 5, Milo - RUB

Ew - 2, Wabamun Lake - Smith & Prach (1980)
1979. Sa - 5 males & 3 females, April 7, Carseland - JOR
Sb - 200, April 21, Cayley - RUB
B - 1 pair, June 9, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - Nov. 18, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
Ew - 1, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. Sa - 4, April 6, Shepard - ANS
Sb - 100, May 10, Shepard to Chestermere Lake - CFNS
B - 1 pair, June 24, Eisenhauer Junction, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 2 Oct. 13, Carseland - HWP

Gadwall *(Anas strepera)*

In most years, the first spring migrants arrive in southern Alberta from the end of March to mid-April.

Turner & Weaver (1980) report a breeding population for southern Alberta during 1971 to 1980 ranging from 279,700 to 495,700. Hennan & Ambrock (1976) record a significant population in the Peace-Athabasca Delta. In 1976, they observed an increase of birds from 2,681 in late August to 10,753 in late September. Gulley (1983a) also reported a substantial increase in the breeding population in the Ft. McMurray area in 1976.

In the fall, most birds have left by early October, with some lingering into winter. Prior to 1975, there were no winter records for this decade. From 1975 to 1980 Gadwalls were recorded wintering in low numbers at Calgary, Wabamun Lake and Galahad. The winter record of 57 birds at Wabamun Lake in 1979 is noteworthy.

1971. Sa - 2 pairs, April 24, Irricana - ISS, TSS
- 1 pair, April 24, Shepard - ROL, DVW
Fb - 200, Sept. 12, Chestermere Lake - WIH, WGM
Fc - 1, Nov. 11, Calgary - RIP
1972. Sa - 1 pair, March 28, Shepard - DVW
F - 20, Sept. 24, Maskinonge, Waterton Lakes N.P. - Sharp (1973)
Fc - 2, Nov. 6, Calgary - VGL
1973. Sa - 20, April 1, Botha - GRG, PAG
Eb - 1 pair, June 8, Margaret Lake, Caribou Mts. - Höhn & Burns (1975)
- 3 males, July 14, Lower Waterton Lake, Waterton Lakes N.P. - JIB
Fb - 881, Oct. 5-6, Peace-Athabasca Delta - Hennan (1974)
Fc - 2, Oct. 28, Joseph Lake - LOG
1974. Sa - 14 pairs, April 12, Connemara - RUB
- 1 male, April 17, Barrhead - BIL, VGL
B - 1 male, July 27, Whitecourt - EVC, JLC
Fb - 774, Sept. 24-26, Peace-Athabasca Delta - Hennan (1974)
Fc - 1, Nov. 17, Hastings Lake - LAP, ERT, TWT, JHW
- 1 male, Nov. 25, Canmore - RCH, JOM, JHW
1975. Ew - 2 males, Jan. 19, Wabamun Lake - ERT, ALW
Sa - 1 pair, April 22, Cheadle - TSS
Em - Oct. 12, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 1 male, Nov. 15, Calgary - EDQ
1976. Ew - 1 pair, Jan. 29, Galahad - KAS
Ew/Sa - 1, March 21, Wabamun Lake - JHA
Sa - 6 pairs, April 8, Irricana - RUB
Em - 1 pair, May 11, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
B - 237 pairs, May 25 & 26, Peace-Athabasca Delta - Hennan & Ambrock (1976)
Em - 1, Aug. 26 and Sept. 12, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Fb - 10,753, Sept. 28 to Oct. 1, Peace-Athabasca Delta - Hennan & Ambrock (1976)
Fc - Oct. 13, Ft. McMurray - Gulley (1979)
- 3 males & 3 females, Nov. 7, Eagle Lake - JOD, JMP
Ew - 3, Dec. 9, Calgary - WWS
- 1, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Ew - 1 male, Feb. 20, Wabamun Lake - RAE, AAJ, SRJ
- 2 males & 1 female, Feb. 20 & 27, Galahad - JSS, KAS, DVW, LIW
- 1 male & 1 female, Feb. 26, Calgary - PES
Sa - 1 pair, April 10, Edmonton - DVW, LIW
- 14, April 16, Eagle Lake - HWP
Sb - 60 pairs, April 30, Irricana - RUB
Em - 3, May 9, Banff N.P. - Holroyd & Gartshore (1978)
- Sept. 24, Mile 18 Pond, Jasper N.P. - Holroyd & Van Tighem (1983)
Ew - 3, Dec. 17, Wabamun Lake - Christmas Bird Count
- 1, Dec. 27, Calgary - Christmas Bird Count
1978. Sa - 1 male, April 22, Hermit Lake - ELC, GEC
- April 27, Ft. McMurray - Gulley (1979)

- 3, April 29, Strathmore - RUB
Fb - 225, Oct. 8, Foremost - RUB
Fc - 3, Nov. 26, Calgary - CFNS
Ew - 4, Dec. 17, Calgary - Christmas Bird Count
- 14, Dec. 27, Wabamun Lake - Christmas Bird Count
1979. Ew - 7, Jan. 7, Calgary - ANS
Sa - 1, April 17, Cheadle - TSS
Eb - 2, June 9 & 10, Jasper - Holroyd & Van Tighem (1983)
Ew - 7, Dec. 16, Calgary - Christmas Bird Count
- 57, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. Ew - 1 to 3, Jan. 3-24, Calgary - OLD
Sa - 2, April 16, Cheadle - TSS
Ew - 3, Dec. 21, Calgary - Christmas Bird Count

Eurasian Wigeon *(Anas penelope)*

The dramatic increase in the number of observations appears to reflect abundance changes and not an increased number of observers. All records of Eurasian Wigeon are in the spring, and mainly from the grassland region of the province. All records are of males or pairs. Newell & Cooch (1980) report 12 birds banded in Alberta between 1918 and 1978. The first fall records of this species did not occur until the 1980's.

1972. Ev - 1 male, April 19 & 20, Frank Lake - BIL, VGL
- 1 pair, May 25, Calgary - CHD, DKM (Pinel & Butot 1978)
1973. Ev - 1 male, March 18, Calgary - RIP, PES (Pinel & Butot 1978)
- 1 pair, April 13, Onefour - RIK
- 1 male, April 29, Edmonton - TWT, JIW
1975. Ev - 1 male, April 12, Carseland - RUB (Pinel & Butot 1978)
1976. Ev - 1 male, April 17, Brant - FBG, VAL
- 1 male, May 7, Pakowki Lake - WWS, CAW, CRW
1977. Ev - 1 male, April 10, Bear Lake - GEC
1978. Ev - 1 male, April 16, Hermit Lake - GEC
1979. Ev - 1 male, April 15, Shepard - MIR
- 1 male, April 28, Etzikom - RIK
1980. Ev - 1 male & 1 female, May 12, Tilley - BOF, KAP

American Wigeon *(Anas americana)*

This species generally arrives in southern Alberta during the latter half of March. Francis & Lumbis (1979) report an arrival date of May 4 for the Ft. MacKay area.

Sharp (1973) indicates that American Wigeon may occasionally nest in Waterton Lakes National Park. Turner & Weaver (1980) report a breeding population for southern Alberta (1971-1980) ranging from 194,900 to 514,500. Fisher (1975b) reports an interesting observation of an American Wigeon stealing aquatic vegetation from a muskrat *(Ondatra zibethica)*.

Most American Wigeon leave southern Alberta by the end of October, with some lingering into winter. Francis & Lumbis (1979) report departure from the Ft. MacKay area as October 8. Holroyd & Van Tighem (1983) state that most birds have left Banff and Jasper National Parks by early October. Sharp (1973) reports that the majority of fall migrants occur in Waterton Lakes National Park early in November.

In contrast to the 1960's there are winter records for most years in the 1970's, but only at Calgary and Wabamun Lake. The Wabamun Lake records are even more unusual because of the large number of birds.

1971. Sa - 1 male, March 19, Calgary - NCB, KSC, DVW
Sb - 100, April 7, Carseland - WWS
Fb - 300, Sept. 12, Chestermere Lake - WIH, WGM
Fc - 1 female, Oct. 29, Calgary - RIP
1972. Sa - 2 males & 1 female, March 18, Gladys - BIL, VGL
Sb - 200, April 9, Brant - BIL, VGL
Fc - 10, Nov. 18, Carseland - CFNS
  - 2, Nov. 19, Hastings Lake - DID
Ew - 3, Dec. 26, Wabamun Lake - LOG
1973. Ew - 1 male, Feb. 25, Calgary - RIP, DAS
Sa - 8, March 16, Cayley - VGL
Sb - 42, April 25, Irricana - BIL, VGL
B - 600, Aug. 11, Beaverhill Lake - GWG, LOG
Fb - 100, Oct. 27, Lac des Arcs - CFNS
Fc - 1, Nov. 16, Maskinonge, Waterton Lakes N.P. - KEB
1974. Sa - 6, March 18, Maskinonge, Waterton Lakes N.P. - KEB
Sb - 41, April 13, Rockyford - LIM, DVW
B - nest with 9 eggs, June 18, Caribou Mountains - Höhn & Burns (1975)
Fc - 1 female, Nov. 9, Elk Island N.P. - Fisher (1975b)
  - 3, Nov. 11, Chestermere Lake - HAV
  - 4, Nov. 11, Ghost Reservoir - ERT, TWT
Ew - 12, Dec. 26, Wabamun Lake - RIP
1975. Ew - 10, Jan. 19, Wabamun Lake - ERT, ALW
Sa - 2 males & 1 female, March 21, Connemara - BIL, HWP, CAR
Sb - 160, April 12, Carseland - RUB
Fc - Oct. 31, Ruth Lake - Sharp & Richardson (1976)
  - 2, Nov. 9, Eagle Lake - RUB
  - 3, Nov. 11, Big Lake - RAE
Ew - 10, Dec. 29, Wabamun Lake - RAE
1976. Ew - 7 to 15 birds, Jan. 17-29, Wabamun Lake - JOK, RIP, DVW
Sa - 4, March 18, Waterton River, Waterton Lakes N.P. - KEB
Sb - 100, April 11, Kathyrn - ANS
  - 100+, April 18, Frank Lake - RUB
Fb - 300-400, Sept. 7, Kananaskis Lake - Salt (1976)
Fc - 3, Nov. 3, Grande Prairie - DVW
  - 12, Nov. 14, Carseland - RUB
  - 8, Nov. 23, Galahad - KAS
Ew - 19, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Ew - 1 female, Feb. 5, Wabamun Lake - OSS
Sa - 1 pair, March 12, Calgary - ADS
Sb - 300, March 31, Frank Lake - GRW, GOW
Fb - 220, Nov. 6, McGregor Lake - RUB
Fc - Nov. 29, Ft. McMurray - Gulley (1979)
Ew - 1 male, Dec. 3, Calgary - ADS
  - 35, Dec. 17, Wabamun Lake - Christmas Bird Count
  - 1, Dec. 27, Calgary - Christmas Bird Count
1978. Sa - 1 female, March 12, Calgary - PES
Sb - 100, April 10, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 1 female, Nov. 26, Calgary - CFNS
Ew - 1, Dec. 17, Calgary - Christmas Bird Count
  - 31, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. Ew - 1 female, Jan. 7, Calgary - ANS

Sa - 1 male, March 11, Brant - BIL, LOL
Sb - 300+, April 15, Chestermere Lake - RUB
Fc - 2, Nov. 30, Carseland - RUB
Ew - 7, Dec. 16, Calgary - Christmas Bird Count
- 31, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. Ew - 1 male & 1 female, Jan. 4, Calgary - OLD
- 1 male & 2 females, Dec. 11, Calgary - OLD

Hybrids within the genus *Anas*

Mallard x Northern Pintail

1976. W - 1 male, Jan. 25, Calgary - HAV
1978. F - 1, Sept. 24, Beaverhill Lake - RIK
1980. W - 1 male, Jan. 13, Calgary - Slater (1980)

Mallard x American Black Duck

1971. S - 1 male hybrid paired with a female Mallard, May 29, Beaverhill Lake - TSS
1975. S - 1 female, April 17, Calgary - HWP
1979. S - 1, April 27, Red Deer River near Empress - RIK

Cinnamon Teal x Blue-winged Teal

There are five records, all of males in the spring. All the hybrids described appear to conform to the Weseloh & Weseloh (1979) description of "a body having the rufous coloration of the Cinnamon Teal and the white facial crescents of the Blue-winged Teal; the white flank patch of the latter is often present and the breast is sometimes spotted."

1973. B - 1 male, May 30, Bassano - Lang (1973b)
1974. B - 1 male, May 20, Namaka Lake - LIM, DVW (Weseloh & Weseloh 1979)
- 1 male, May 20, Eagle Lake - LIM, DVW (Weseloh & Weseloh 1979)
- 1 male, June 9, Vermilion Lakes, Banff N.P. - LIM, DVW (Weseloh & Weseloh 1979)
1977. B - 1 male, May 7, Keoma - ANS

Canvasback *(Aythya valisineria)*

This species arrives in southern Alberta from late March to early April. Francis & Lumbis (1979) give May 1 as the arrival date for the Ft. MacKay area.

Turner & Weaver (1980) estimated waterfowl breeding populations in southern Alberta for the years 1971 to 1980. The estimates for diving ducks as a group ranged from a high of 1,251,200 in 1976 to a low of 473,700 in 1971. Canvasback numbers were estimated at 124,800 in 1976 and 39,100 in 1971.

The last Canvasbacks leave southern Alberta by mid-November. Francis & Lumbis (1979) state that the majority leave the Ft. MacKay area by late September.

The first Alberta winter record was in 1963 at Calgary (Sadler & Myres 1976). There are seven winter records during the 1970's with birds recorded at Calgary, Edmonton, Galahad, and Wabamun Lake.

1971. Sa - 4, April 8, Cheadle - TSS
Eb - nest with 8 eggs, May 22, Baintree - HWP, CAW
Fc - 2 females, Nov. 14, Calgary - RIP
1972. Sa - 6, March 20, Carseland - CAW, CRW
Sb - 60+, April 23, Stobart Lake - HWP, LIP
B - 351 (1 flock of 150 males), June 19, Namaka Lake - DVW
Eb - 5 young, June 18, Conrich - VGL
- 6 young, July 29, Calgary - HWP
Fc - 1, Nov. 18, Hastings Lake - LOG
1973. Sa - 11, April 11, Cheadle - ISS
Sb - 100, April 19, Irricana - VGL, CAR
Fb - 85, Oct. 6, Beaverhill Lake - LOG
Fc - 1 male, Nov. 12, Calgary - HWP, CAR
1974. Sa - 2 males, April 6, Cayley - HWP, CAR
B - nest being built May 20; held 9 eggs on May 25 (most likely 2 different females were contributing), Tofield - LOG
Fb - 537, Sept. 23-26, Hay-Zama Lakes - Gunn et al. (1975)
Fc - 2, Nov. 23, Wabamun Lake - WAR, ERT
Ew - 1, Dec. 7, Calgary - RUB
1975. Ew - 3, Jan. 19, Wabamun Lake - ALW, ERT
Sa - 6, April 10, Calgary - KAM
Fb - 550, Sept. 4, Bistcho Lake - Patterson & Wiseley (1977)
Fc - 1 female, Nov. 19, Calgary - HWP
1976. Ew - 1 male, Jan. 29, Galahad - KAS
Sa - 1 male, April 3, Connemara - HWP
- 18, April 8, Galahad - KAS
Sb - 150, April 25, Irricana - RUB
Fc - 1 female, Nov. 21, Calgary - CFNS
Ew - 3, Sundance Cooling Pond - Smith & Prach (1980)
1977. Ew - 1 male, Feb. 10, Galahad - KAS
Sa - 2 pairs, March 26, Carseland - RUB
- 3 males, March 26, Frank Lake - GRW
Sb - 120, April 16 & 23, Irricana - RUB
Sc - 10, May 12, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
B - 6, July 9, Tyrrell Lake - RUB
F - 36, Sept. 24, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 2 males, Nov. 13, Calgary - ANS
1978. Sa - 2, March 28, Lyalta - LOB, BIL
- 25, April 8, Grande Prairie - ELC, GEC
B - 6, June 4, pond near Sheppard Creek - CAW
Fc - Nov. 12, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Ew - 1, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. Sa - 2 males & 1 female, April 13, Namaka Lake - WWS
Sb - 250, April 21, Blackie - RUB
Ew - 1, Dec. 16, Edmonton - Christmas Bird Count
1980. Sa - 4, April 13, Cheadle - TSS
Fc - 1 male, Nov. 18, Calgary - OLD

Redhead *(Aythya americana)*

This species usually arrives in southern Alberta during late March and early April. Francis & Lumbis (1979) report May 2 as the arrival date in the Ft. MacKay area.

Turner & Weaver (1980) estimate that the breeding population of Redheads in southern Alberta varied from a high of 379,300 in 1976 to a low of 68,700 in 1971. Giroux (1981a) discusses nest parasitism by Redheads in southeastern Alberta. Mallards had the largest number of nests parasitized, while Lesser Scaup had the largest number of Redhead eggs per nest.

Francis & Lumbis (1979) state that southbound migrants arrive in the Ft. MacKay area in early September, with the last date of departure being October 23. Most birds leave southern Alberta by mid-November.

The first Alberta winter record was in 1963 at Wabamun Lake (Sadler & Myres 1976). There are a total of eleven winter records for the decade from Calgary, Edmonton, and Wabamun Lake.

1971. Sa - 4, April 9, Cheadle - ISS, TSS
Fb - 100, Oct. 5, Rolling Hills Lake - CDB, RDB
Fc - 3 males, Nov. 13, Calgary - BIL, VGL
1972. Sa - 1 pair, April 5, High River - VGL, RIP, DVW
Fb - 200, Oct. 7, Rolling Hills Lake - ADB, CDB
Fc - 1, Nov. 12, Wabamun Lake - LOG
1973. Sa - 1 male, March 24, Brant - BAD, BOD
Fb - 60, Sept. 22, Irricana - RUB
Fc - 1 male, Oct. 21, Strathmore - RUB
1974. Sa - 2 pairs, March 30, Lethbridge - HES
Fc - 2, Nov. 23, Hastings Lake - DID, ROS, JIW
1975. Ew - 1 male & 1 female, Jan. 4, Calgary - HAV
- 1 male, Jan. 19, Wabamun Lake - ALW, ERT
Sa - 1 male, April 3, Carseland - HWP
Ew - 2 males, Dec. 19, Calgary - HWP
- 1 Dec. 28, Calgary - Christmas Bird Count
1976. Ew - 4, Jan. 24, 27, & 29, Wabamun Lake - RIC, RIP, DVW, LIW
- 6, Jan. 29, Galahad - KAS
Sa - 2, April 3, Cheadle - TSS
Fc - 2 males, Nov. 7, Eagle Lake - JOD
Ew - 1, Dec. 19, Edmonton - Christmas Bird Count
- 8, Sundance Cooling Pond - Smith & Prach (1980)
1977. Sa - 6 males, March 31, Carseland - RUB
Sb - 90, April 23, Irricana - RUB
B - 400, July 10, Ronalane - RUB
Fc - 6, Nov. 6, McGregor Lake - RUB
Ew - 1, Dec. 17, Wabamun Lake - Christmas Bird Count
1978. Sa - 1 pair, April 2, Kathyrn - CAO
- 1 male, April 8, Dimsdale - ELC, GEC
Fc - 3 males, Nov. 5, Milo - RUB
Ew - 1, Dec. 17, Calgary - Christmas Bird Count
1979. Sa - 1 male, March 18, Blizzard Lake - BIL, LOL
Fc - 1 male, Nov. 18, Calgary - ANS
Ew - 20, Sundance Cooling Pond - Smith & Prach (1980)
1980. Sa - 1 male & 2 females, March 9, Calgary - DAM, MIR
Eb - 1 pair, June 11, Pocahontas, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 1, Nov. 16, Eagle Lake - ANS

Ring-necked Duck *(Aythya collaris)*

This species usually arrives in southern Alberta from mid to late April. Francis & Lumbis (1979) state that the arrival date in the Ft. MacKay area is May 8.

Holroyd & Van Tighem (1983) report that this species is fairly common during the breeding season in Banff National Park and uncommon in Jasper National Park. Observations below indicate definite breeding in the foothills south to the latitude of Calgary. Sharp (1973) and other observers indicate that Ring-necked Ducks may nest in extreme southwestern Alberta.

Sharp & Richardson (1976) noted two creches on Mildred Lake in 1975. This is apparently unusual for this species. Turner & Weaver (1980) estimated that the breeding population for southern Alberta ranged from a high of 16,300 in 1978 to a low of 600 in 1973.

Most Ring-necked Ducks leave the Ft. MacKay area by late September (Francis & Lumbis 1979). Most birds leave southern Alberta by early November.

The first winter records for Alberta occurred during the decade. There are seven winter records from Wabamun Lake and Edmonton.

1971. Sa - 1 pair, April 26, Shepard - ROL, DVW
Fc - 5, Oct. 19, Calgary - RIP
1972. Sa - 1 male, April 12, Blizzard Lake - WWS, CAW, CRW
Eb - 2 nests, July 7, Chilver Lake - CAW, CRW
- 1 male, July 22, Beynon - CAW
Fc - 4, Nov. 12, Lake Eden - LOG
Ew - 4, Dec. 31, Wabamun Lake - LOG
1973. Sa - 5 males & 1 female, April 14, Blizzard Lake - BIL, VGL
Eb - nest with 8 eggs, June 23, near Cochrane - SCO
Fc - 1, Sept. 30, Cochrane - CFNS
1974. Sa - 1 pair, April 13, Calgary - HAV
Sb - 20 pairs, April 28, Chestermere Lake - RUB
Sc - 1 pair, May 18, Irvine - GWG, LOG
Eb - 4 males & 1 female, June 2, Tofield - JIW
- 2 males, June 20, Police Outpost P.P. - Crack & Danielson (1974a)
- 5 males, June 24, Beauvais Lake - Crack & Danielson (1974b)
- 1 male, July 3, Chain Lakes P.P. - Crack & Danielson (1974c)
- 12 males, July 7, Vermilion Lakes, Banff N.P. - BCM, RIP
- raised 2 broods, Water Valley - SFJ (Houston & Houston 1974)
B - downy young, July 26, Dunstable - VGL
Fb - 25, Aug. 25, Tofield - RIP
Fc - 1, Oct. 25, Morinville - HUS
1975. Ew - 1 male, Jan. 24 & 25, Edmonton - BEB, GEB, JIW
Sa - 2, April 20, De Winton - CFNS
Sb - 52, May 6, Mildred Lake - Sharp & Richardson (1976)
Eb - several, June 16, Rumsey - CAW
B - 2 creches (2 females with 55 young; and 25 young unattended), July 31, Mildred Lake - Sharp & Richardson (1976)
Fc - 1 male, Nov. 3, Calgary - HWP
Ew - 1, Dec. 21, Edmonton - Christmas Bird Count
1976. Sa - 3 males & 1 female, April 9, Shepard - HWP
- 1 male, April 10, Galahad - KAS
Sb - 14 males & 4 females, April 18, Frank Lake - WWS
S - 1 pair, May 1, Del Bonita - ROB, DVW, LIW

Eb - 3 young, Aug. 12, Jasper N.P. - GEH
Fc - 1 male & 1 female - Nov. 14, Travers Reservoir - RUB
Ew - 2, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Sa - 1, April 8, Calgary - CAO
- April 9, Banff N.P. - Holroyd & Van Tighem (1983)
Sb - 44, April 26, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fb - 41, Sept. 29, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 2 females, Nov. 6, Calgary - PES
Ew - 1, Dec. 17, Wabamun Lake - Christmas Bird Count
1978. Sa - 1 male, April 16, Bear Lake - ELC, GEC
- 3 males & 2 females, April 22, Langdon - JOR
- April 27, Hay-Zama Lakes - Gollop (1978)
Sb - 7+ pairs, May 6, Conrich - HWP, JOR
Eb - 1 pair, May 21, Alix - RUB
- 4 pairs & 2 males, June 2, Beaverdam Lake - CAW
- brood, June 16, lower North Saskatchewan River, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - Oct. 3, Ft. McMurray - Gulley (1979)
Ew - 6, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. Sa - 9, April 21, Priddis - RUB
- 2 males & 1 female, April 23, La Glace - ELC, GEC
Sb - 63, May 8, Bottrel - SFJ
Eb - 1 pair, June 5, pond near Oldman River south of Whaleback Ridge - CAW
- 1 female, July 1, Pincher Creek - WWS
Fb - 36, Sept. 15, Beauvais Lake - RUB
Ew - 7, Wabamun Lake - Smith & Prach (1980)
1980. Sa - 1, April 26, Cheadle - TSS

Greater Scaup *(Aythya marila)*

The breeding status of this species in Alberta is uncertain. Godfrey (1986) shows the breeding range for this species extending as far south as the Northwest Territories/Alberta border. Salt & Salt (1976) state: "Early reports that the species once nested at Lake Athabasca are now discounted." Höhn & Burns (1975) observed "a number on several waters" in the Caribou Mountains in June 1973 and July 1974. They state: "breeding of this species in the Caribou Mountains is not improbable."

Newell & Cooch (1980) report that 16 birds were banded in Alberta from 1918 to 1978. For the 1970's there are 28 sight records, 18 of which occurred in the spring. There are only three records for the 1960's (Sadler & Myres 1976).

1971. Ev - 3, Sept. 22, Calgary - RIP (Pinel & Butot 1978)
1972. Ev - 1 male, May 28-30, Meander River - RLS
- 2 males & 3 females, Sept. 20, Talbot Lake, Jasper N.P. - WAN
1973. Ev - 3, April 20-22, Amisk Creek south of Beaverhill Lake - BEB, GEB, JIW
- 2, May 6, Beaverhill Lake - GWG, LOG
- 1 male, June 26, Sturgeon Lake - KVT, CAW
1974. Ev - 1, Aug. 12, Mildred Lake - Sharp et al. (1975)
- 1, Sept. 3, Ruth Lake - Sharp et al. (1975)
- 1 female, Oct. 4, Water Valley - SFJ
- 3, Oct. 27, Mildred Lake - Sharp et al. (1975)
1975. Ev - 10, April 27, Wabamun Lake - JIW

- 1, May 23, Buffalo Lake - DAB, GUB
- 1 female, Oct. 8, Cochrane - RUB, SFJ (Pinel & Butot 1978)
- 83, Sept. 1 to Oct. 31, Syncrude lease - Sharp & Richardson (1976)
- 3, Oct. 23, Ft. MacKay area - Francis & Lumbis (1979)

1976. Ev - 1 female, March 23, Cheadle - ISS
- 2, March 28, Galahad - KAS (Acorn 1976b)
- 5 males, April 3, Namaka Lake - RUB (Pinel & Butot 1978)
- June 1, Ft. McMurray - Gulley (1979)
- 1 pair, June 5, Calgary - Butot (1976c)
- 30, Oct. 30, Elk Island N.P. - SAJ, TAJ

1977. Ev - 2 pairs, May 2, Miquelon Lake - JAG, RAG

1978. Ev - 6, May 27/28, Ft. McMurray - Wiseley (1979b)
- 6, Oct. 16, Wabamun Lake - RAE

1979. Ev - 1 male, May 10, Winterburn - LUB
- 5, May 27, Cardston - Wiseley (1980a)

1980. Ev - 1 pair, mid-March to April, Calgary - JAS
- 10, May 10, Shepard to Chestermere Lake - CFNS

Lesser Scaup *(Aythya affinis)*

This species arrives in southern Alberta during late March and early April. Francis & Lumbis (1979) state that the arrival date for the Ft. MacKay area is May 3.

Holroyd & Van Tighem (1983) list this species for Banff and Jasper National Parks as uncommon in summer and give six nesting records. Sharp (1973) lists no breeding records for Waterton Lakes National Park. Turner & Weaver (1980) state that the nesting population in southern Alberta varied from a high of 687,500 in 1979 to a low of 299,500 in 1971.

Francis & Lumbis (1979) give November 3 as a last fall departure date from the Ft. MacKay area. Most Lesser Scaup leave southern Alberta by late November.

There are a total of fifteen winter records from Edmonton, Calgary, Wabamun Lake and Galahad.

1971. Sa - 10, April 7, Carseland - WWS
Sb - 30-35, April 24, Chestermere Lake - SEA, KSC
Fb - 50, Oct. 7 & 11, Frank Lake - CDB, RDB
Fc - 2 males & 1 female, Nov. 14, Calgary - RIP

1972. Sa - 2 males, April 4, Shepard - CAW, DVW
Sb - 200, May 16, Lacombe - VGL
Fb - 300, Oct. 7, Rolling Hills Lake - ADB, CDB
Fc - 1 female, Nov. 18, Calgary - HAV
- 40, Nov. 18, Hastings Lake - LOG

1973. Sa - 4 males, March 25, Brant - CFNS
Sb - 100, April 28, Tofield - LOG
B - 100+ (males greatly in excess), June 30, Caribou Mountains - Höhn & Burns (1975)
Fb - 1,400, Sept. 23, Cooking Lake - LOG
Fc - 11, Nov. 28, Calgary - VGL
Ew - 1, Dec. 16, Edmonton - STJ
- 9, Dec. 30, Calgary - Christmas Bird Count

1974. Ew - 11, Jan. 20, Calgary - WWS
- 7, March 9, Calgary - BIL, VGL
Sa - 6, April 8, Edmonton - JIW

Sb - 200, April 28, Beaverhill Lake - LOG
Fb - 7,061 "scaups", Sept. 23-26, Hay-Zama Lakes - Gunn et al. (1975)
Fc - 2, Nov. 23, Hastings Lake - DID, ROS, JIW
Ew - 3, Dec. 16, Edmonton - Christmas Bird Count
- 6, Dec. 26, Wabamun Lake - RIP
1975. Sa - 4, March 29, Canmore - BIK, LAR
Sb - 160, May 24, Conrich - RUB
Fc - 1 female, Nov. 30, Calgary - ANS
Ew - 4 males & 1 female, Dec. 28, Galahad - KAS
1976. Ew - 9, Jan. 20, Wabamun Lake - JOK, DVW
- 18, Feb. 11, Galahad - KAS
Sa - 1 male, April 3, Strathmore - EVC, JLC, DEJ
Sb - 120, April 25, Irricana - RUB
Fb - 200, Sept. 5, Irricana - RUB
Fc - 1 male, Dec. 4, Calgary - ADS, DOS, PHS
Ew - 15, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Ew - a few, Feb. 10 & 27, Galahad - JSS, KAS, DVW, LIW
Sa - 2 pairs, March 23, Calgary - HWP, JOR
Fb - 300, Nov. 5, Calgary - PES
Fc - 4 females, Nov. 13, Calgary - PES
Ew - 2, Dec. 17, Wabamun Lake - Christmas Bird Count
1978. Sa - March 29, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 2 males, March 31, Pekisko - HWP, JOR
- 1 male, April 1, St. Albert - PED
Sb - 120, April 29, Namaka Lake - RUB
Fb - 300+, Sept. 10, Irricana - RUB
Fc - Nov. 14, Ft. McMurray - Gulley (1979)
Ew - 1, Dec. 24, Wabamun Lake - Christmas Bird Count
1979. Sa - 2 males & 2 females, April 12, Irricana - CLM, DEM
Sb - 115-120, April 18, Irricana - CLM
Fc - 15, Nov. 11, Seebe - SEA, JMP
Ew - 1, Dec. 16, Calgary - Christmas Bird Count
- 5, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. Sa - 1 male & 1 female, March 9, Calgary - DAM, MIR
Sb - 200, April 14, Namaka Lake - RAW
Fc - 1 female, Nov. 24, Calgary - OLD

King Eider *(Somateria spectabilis)*

No observations were reported for the decade.

Harlequin Duck *(Histrionicus histrionicus)*

Most Harlequin Ducks arrive early in May. There is an interesting spring peak for Banff National Park in 1977.

Bellrose (1976) states that males leave the breeding areas early in the incubation period. Females remain to raise broods and can be seen until mid-September.

There are five records away from the mountains, including two late spring reports from northeastern Alberta. In the previous decade, there is an interesting record of a single male from Beaverhill Lake on May 1, 1965 (Bob Lister, *Edmonton Journal*, May 2, 1965).

The first winter record for Alberta was during the winter of 1972/1973 at Calgary.

1971. Sa - 1 pair, May 11, Barrier Lake - TSS
1972. Ew - 1 immature male, Nov. 8, 1972 to March 20, 1973, Calgary - VGL, HWP, CAR, WWS, DVW, Christmas Bird Count
1973. Em - 2 males, April 30 to May 4, Calgary - GRW
1974. Sa - 5 males & 2 females, May 5, Banff N.P. - LIM, DVW
B - 5 pairs & 2 males, June 9, Athabasca River, Jasper N.P. - PAH
1975. Sa - 1 male & 1 female, May 17, Eisenhauer Junction, Banff N.P. - SCO
1976. Sa - 2 males, May 6, Panther River - BIL
Em - 1 pair, May 30, Gregoire Lake - WWS
- 1 female, Nov. 7, Calgary - CEH
Fc - 1 eclipse male, Nov. 13, Jasper N.P. - GHF
1977. Sa - May 3, Banff N.P. - Holroyd & Gartshore (1978)
B - 42, June 1, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
Eb - 1 male, June, Muskeg River north of Ft. MacKay - Francis & Lumbis (1979)
- 1 female, June 22, Torrens River near Wembley - BEW
Fc - Aug. 20, Banff N.P. - Holroyd & Gartshore (1978)
1978. Sa - May 2, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
B - 18 pairs, late spring, Athabasca River, Jasper N.P. - GEH
Fc - 1 female, Nov. 9, Knights Lake, Waterton Lakes N.P. - SIL

Oldsquaw *(Clangula hyemalis)*

There are more observations in this decade than in previous decades. Most observations are spring records, primarily in May, from the mountains and northern Alberta. Most reports are of small numbers, with the exception of 85 from Hay-Zama Lakes in 1974.

There are two summer records for the Caribou Mountains in late June. All fall records, except for one in 1974, are from southern Alberta. The first two winter records for Alberta occurred during the decade.

1972. Em - 1 male & 1 female, May 13, Spray Lakes - GEA, WEB
- 10, Oct. 9, Jasper N.P. - SYB
1973. Sa - 1, April 21, Niton - REG
S - 5 males, April 22, Darwell - GEP
Sb - 15, May 14, Saskatoon Lake - Fairbarns et al. (1981)
- 15, May 15, Lake Isle - MAH
Em - 1, May 19 & 20, Beaverhill Lake - GWG, LOG
- 2, June 2, Hanna - RDR
Eb - 1 male & 1 female, June 30, Caribou Mountains - Höhn & Marklevitz (1974); Höhn & Burns (1975)
Ew - 1 immature, Dec. 30, 1973 to Jan. 9, 1974, Calgary - JAH, BIL, VGL, HWP, JOP, CAR (Pinel & Butot 1978)
1974. Sb - 85, May 9-12, Hay-Zama Lakes - Gunn et al. (1975)
Em - 1, Oct. 17, Ft. MacKay - Sharp et al. (1975)
- 1 female, Oct. 20, Calgary - RFC (Pinel & Butot 1978)
- 1 female & 1 immature, Nov. 11, Hastings Lake - LOG
1975. Eb - 1 male, June 23 & 24, near Rock Island Lake, Caribou Mountains - Höhn & Burns (1976)
Fc - 1, Nov. 21, Big Lake - DVP, BRT
1976. S - 6, May, Jasper N.P. - Holroyd & Karasiuk (1977)
Sc - 4, May 24, McClelland Lake - Francis & Lumbis (1979)
F - 1, Nov. 2, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)

Em - 2 females, Nov. 14, McGregor Lake - RUB (Pinel & Butot 1978)
- 2 females/immatures, Nov. 14, Carseland - RUB (Pinel & Butot 1978)
1977. Sa - 27, April 30, Carson Lake - DVB, EVY, KEY
Sb - several hundred, May 1, Musreau Lake - ELC, GEC, BEW
S - many, May 13, Musreau Lake - ELC, GEC, BEW
- May 14, Edith Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, May 27, Fishtail Lake - Francis & Lumbis (1979)
1978. Sa - April 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- April 27, Hay-Zama Lakes - Gollop (1978)
1979. Sa - 2 males & 1 female, April 29, Big Lake - LUB
Sb - 35, May 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Em - 3, May 12, Kiever's Lake - CFNS
Sc - 2 pairs, May 17, Clairmont Lake - GUL
1980. Ew - 1 immature male, Jan. 19, Calgary - PES
Em - 1 male & 1 female, Oct. 22, Knights Lake, Waterton Lakes N.P. - TEH

Black Scoter *(Melanitta nigra)*

There are eight observations of this species during the decade, including what was considered to be the first documented record (November, 1976). However, Newell & Cooch (1980) state that four birds were banded in Alberta between 1918 and 1978. There are two additional historical records of note. Stansell (1909) states that several were seen at Little Devil's Lake (northwest of Edmonton) on July 7, 1909. Brown (1948) states that a flock of 40 birds were seen on Many Island Lake from May 30 to June 15, 1944. One specimen was collected, which would be the first for Alberta.

During the decade, the spring records are all from northern Alberta between May 24 and June 10. The fall records are all from southern Alberta between October 24 and November 16.

1971. Ev - 1 male & 2 females, Oct. 24, Calgary - RIP (Pinel & Butot 1978)
1976. Ev - 7, June 1, McClelland Lake - Francis & Lumbis (1979)
- 4, June 9, McClelland Lake - Francis & Lumbis (1979)
- 2 females or immatures, Nov. 12, McGregor Lake - RUB; birds photographed; first documented record for Alberta - Pinel & Butot (1978)
1977. Ev - 4, May 24, Ft. MacKay area - Francis & Lumbis (1979)
- 1, May 27, Kearl Lake - Francis & Lumbis (1979)
- 1 pair, June 3-10, Kearl Lake - MAF
1980. Ev - 1 female, Nov. 2, 3, & 16, Calgary - Steeves (1981)

Surf Scoter *(Melanitta perspicillata)*

Records of this species for the 1970's indicate arrival in Alberta in mid-May.

Salt & Salt (1976) list a recent nesting record for Alberta as 6 July 1969 when "a nest with five eggs was discovered on an island in Wentzel Lake." in the Caribou Mountains. This is not mentioned in Sadler & Myres (1976). The only other breeding record is from Wentzel Lake in 1974. With only two documented nesting records for Alberta that the authors are aware of, it is interesting that Salt & Wilk (1966), Salt & Salt (1976) and Godfrey (1986) show the northern third of Alberta as the breeding range for Surf Scoters. We agree with Salt & Salt (1976) who write: "The status of this species in Alberta needs clarifying."

In the fall, most records for southern Alberta occur in late October and early November.

1971. Fa - 2 females, Oct. 9, Calgary - BIL, VGL
Fc - 2 females, Oct. 24, Calgary - RIP
1972. Sa - 10, May 16, Elk Island N.P. - Burns et al. (1986)
Fc - 1, Oct. 22, Chilver Lake - WWS
1973. Sa - 2 males & 1 female, May 6, Beaverhill Lake - GWG, LOG
Sb - 15, May 14, Saskatoon Lake - KVT, CAW
S - 4 males & 1 female, May 19, Miquelon Lake - VGL
Eb - 2, July 17, Sturgeon Lake - KVT, CAW
Fc - 1 female, Oct. 28, Irricana - RUB
1974. Sa/Sb - 70, May 9-12, Iosegun Lake - Gunn et al. (1975)
B - 1 female with 4 young, July 9, Wentzel Lake area - Höhn & Burns (1975)
1975. Sa - 1 male, May 10, Manning - GRG, PAG, MAH
Sb - 35, May 21, Thunder Lake - ROD
Fa - 7, Sept. 4, Bistcho Lake - Patterson & Wiseley (1977)
Fc - 2, Oct. 25, Ruth Lake - Sharp & Richardson (1976)
- 2, Nov. 9, McGregor Lake - RUB
1976. Sa - 3, May 8, Maligne Canyon, Jasper N.P. - GEH
- May 16, Ft. McMurray - Gulley (1979)
Sb - 39, May 9, Jasper N.P. - GEH
B - 3 males, July 7, Ft. Chipewyan - JOK
Fc - 2, Nov. 2, Jasper N.P. - GEH
1977. Sa - many, May 13, Musreau Lake - BEW
- 1 male, May 14, Ft. MacKay - WWS
Sb - 27, May 16, Moonshine Lake - CAW
Fa - Sept. 2, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 3 females/immatures, Oct. 30, Calgary - ANS
1978. Sa - May 4, Hay-Zama Lakes - Gollop (1978)
- 1 male & 1 female, May 17, Mariana Lake - Ebel (1978b)
Sc - June 5, Saskatchewan River Crossing, Banff N.P. - Holroyd & Van Tighem (1983)
1979. Sa - 1 male, April 30, Hermit Lake - ELC, GEC
1980. Sc - June 7, Brazeau Reservoir - MAH
- June 9, Smoky River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fa - 1 male & 2 females, Sept. 19, Waterton Lakes N.P. - TEH
Fb - 20+, Oct. 22, Waterton Lake, Waterton Lakes N.P. - TEH
Fc - 1 female, Nov. 2-3, Calgary - Steeves (1981)

White-winged Scoter *(Melanitta fusca)*

This species arrives in southern Alberta from late April to early May. Francis & Lumbis (1979) state that the arrival date in the Ft. MacKay area is May 13. Sharp (1973) lists only one spring record for Waterton Lakes National Park: ten birds on April 1-3, 1953. This date is extremely early.

Turner & Weaver (1980) report that the nesting population in southern Alberta ranged from a high of 43,500 in 1979 to a low of 8,700 in 1975. Francis & Lumbis (1979) found no evidence of breeding in the Ft. MacKay area.

Francis & Lumbis (1979) list the fall departure date from the Ft. MacKay area as October 8. Sharp (1973) indicates a major movement in the third week of October through Waterton Lakes National Park. The last birds leave southern Alberta from late October to mid-November.

The first winter record was in 1972 at Wabamun Lake.

1971. Sa - 4, May 2, Deadhorse Lake - HAV
Sb - 40-50, May 26, Cold Lake - COS
B - 60, June 22, Buffalo Lake - MOR, DVW
- 4 females, Aug. 6, Irricana - VGL, DVW
Fa - 3, Sept. 19, Brooks - DVW
Fb - 55, Oct. 24, Calgary - RIP
Fc - 1, Oct. 25, Calgary - RAO, HWP, CAW, DVW
1972. Sa - 2 males, April 22, Canmore - GEA, WEB
B - 5 males & 2 females, June 13, Lost Lake near Enchant - VGL, DVW
- 13, June 13, Keho Lake - VGL, DVW
- 52, June 19, Eagle Lake - DVW
Fa - 3, Oct. 12, Calgary - RIP
Fc - 1, Nov. 18, Hastings Lake - LOG
Ew - 1, Dec. 26, Wabamun Lake - LOG
1973. Sa - 1 male, April 22, Irricana - BIL, VGL
Sb - 40, May 5, Cooking Lake - JIW
B - 100+, July 10, Winagami Lake - WWS
- 5 males, July 16, Ghost Reservoir - BIL, VGL
- 7, July 18, Lake Newell - VGL
Fa - 11, Oct. 3, Pyramid Lake, Jasper N.P. - BEB, GEB
Fc - 2 females, Oct. 28, Irricana - RUB
1974. Sa - 3 males, May 3, Chestermere Lake - HAV
B - 8, June 27, Tyrrell Lake - BCM, RIP
- 3 adults with 2 young, July 26, Irricana - RUB
Eb - 100 (adults with 55 young), Aug. 18, Burnstick Lake - RUB
Fc - 2, Nov. 23, Wabamun Lake - WAR, ERT
1975. Sa - 1, April 27, Irricana - TSS
B - 14 males & 4 females, June 8, Eagle Lake - KSC, JOD
- 7 including young, July 6, Irricana - RUB
- 6 females, Aug. 7, Elkwater Lake - RUB
Fa - 1 female, Sept. 28, Calgary - EAR
Fc - 1, Oct. 31, Ruth Lake - Sharp & Richardson (1976)
- 1 male, Nov. 9, Eagle & McGregor Lakes - RUB
1976. Sa - 1 male, May 7, Irricana - RUB
B - 8 pairs, June 19, Irricana - RUB
- 2 pairs, July 2, Elkwater Lake - AAJ, SAJ, JDW
Eb - 16, July 13 & 14, Upper Kananaskis Lake - Salt (1976)
Fc - 1 female, Oct. 31, McGregor Lake - RUB
1977. Sa - 14, May 6, Banff N.P. - Holroyd & Gartshore (1978)
- 1 male, May 8, Calgary - CAO
Sb - 85, May 15, Disaster Point, Jasper N.P. - Holroyd & Van Tighem (1983)
B - 3 pairs, June 28, Ricinus - CAG, ROG, JMP
F - 5, Oct. 29, Barrier Lake - SEA, JMP
Fc - 2 males, Nov. 13, Calgary - PES
1978. Sa - May 3, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 4 males, May 3, McGregor Lake - GRW
- May 8, Hay-Zama Lakes - Gollop (1978)
Eb - June 3, Waterfowl Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 6, June 4, marshy pond near Sheppard Creek - CAW

- Aug. 8, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 29, Oct. 8, Cypress Hills - RUB
1979. Sa - 1 male, April 24, Saskatoon Lake - ELC, GEC
Fc - 1, Nov. 11, Ghost Reservoir - SEA, JMP
1980. Sa - 2, May 10, Travers Reservoir - HWP
Sc - 6, May 31, Calgary - ANS
B - 1, July 1, Eagle Lake - ANS
Fa - 1, Sept. 14, Eagle Lake - CFNS
Fb - 19, Nov. 2, Calgary - ANS
Fc - 1, Nov. 23, Calgary - ANS

Common Goldeneye *(Bucephala clangula)*

Spring migration in Waterton Lakes National Park appears to peak in April (Sharp 1973). In Banff and Jasper National Parks spring migration is from mid-March to early May, with the peak from mid to late April (Holroyd & Van Tighem 1983). Francis & Lumbis (1979) state that the arrival date in the Ft. MacKay area is May 2.

The Common Goldeneye is essentially a nesting species throughout northern Alberta and the aspen parkland. It nests occasionally along river valleys in the grassland region. Extralimital nesting records are from Finnegan, Dinosaur Provincial Park, Calgary, Carseland, Indian Grave Campground area and Kananaskis Country. Neither Sharp (1973) nor Holroyd & Van Tighem (1983) have reported nesting for the three mountain National Parks.

Francis & Lumbis (1979) report that fall migration begins in the Ft. MacKay area in early September. Holroyd & Van Tighem (1983) record migrants passing through Banff and Jasper National Parks during September and October. Sharp (1973) reports that fall migration in Waterton Lakes National Park peaks in early November. In reference to migration, Bellrose (1976) states that this species appears on lakes soon after break-up and the last birds leave just before freeze-up.

Banff and Calgary appear to be regular wintering areas, with some occurrences at Stettler, Galahad, and Wabamun Lake.

1971. W - 329, Jan. 4, Calgary - DVW
Sc - 16, April 27, Shepard - ROL, DVW
Eb - female & brood of downy young, June 14, near Dinosaur P.P. - Kondla & Pinel (1973b)
- 1 female, July 1, Calgary - DVW
- 1, July 22, Dinosaur P.P. - Kondla (1978)
Fa - 3, Sept. 28, Calgary - RIP
Fb - 75, Nov. 11, Calgary - RIP
1972. Sc - 1, June 5, Irricana - DVW
B - 1 female with 4 young, June 14, Dry Island Buffalo Jump P.P. - WWS
Eb - 1 female, July 22, Calgary - WWS
Fa - 3, Sept. 28, Calgary - RIP
Fb - 204, Nov. 12, Wabamun Lake - LOG
F - 20, Nov. 18, Grassy Lake - GRW
1973. Ew - 31, Feb. 18, Wabamun Lake - GWG, LOG, LOW, POW
Sc - 6 pairs, May 13, Calgary - DPD
Eb - 1 pair, June 7, Cameron Lake, Waterton Lakes N.P. - JIB
- 1 female with 11 young, June 8, Carseland - VGL
- 2 females, July 1, Finnegan - LOG

B - 500, June 11, Winagami Lake - WWS
Eb - 4 young, June 19, Calgary - VGL
Fa - 3 males, Sept. 23, Chain Lakes P.P. - GRW
Fb - 200, Oct. 21, Cooking Lake - GWG, LOG
Fc - 10, Nov. 3, Hastings Lake - LOG
Ew - 6, Dec. 26, Stettler - Christmas Bird Count
1974. Ew - 300, Feb. 16, Wabamun Lake - LOG, TWT
Sc - 3 males, May 4, Irricana - RUB
F - 714, Sept. 23-26, Sturgeon Lake - Wiseley & Tull (1975)
Fa - 1 male & 3 females, Oct. 14, Calgary - JOD
Fb - 500, Nov. 23, Wabamun Lake - WAR, ERT
Ew - 250, Dec. 26, Wabamun Lake - RIP
1975. Sc - 8, June 1, Carseland - BIL
Eb - 4 pairs, May 27 & 28, Dinosaur P.P. - Kondla (1977b)
Fa - 3, Sept. 6, Eagle Lake - HWP
Ew - 31, Dec. 28, Galahad - KAS
1976. Sb - 78, April 22, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - 1 female & 6 young, July 1, Drumheller - JDW
Fa - 9, Sept. 26, Irricana - RUB
Fb - 400, Nov. 14, McGregor Lake - RUB
W - 591, Dec. 18, Wabamun Lake - Christmas Bird Count
- 686, Dec. 19, Calgary - Christmas Bird Count
1977. Ew - 25 males & 5 females, Feb. 10, Galahad - KAS
Sb - 300 males & 280 females, April 5, Frank Lake - GRW
Sc - 25, April 24, Calgary - ANS
Fa - 25, Oct. 9, Frank Lake - DPD, SAD
Fb - 120, Oct. 29, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
W - 974, Dec. 27, Calgary - Christmas Bird Count
1978. Fa - 10, Oct. 28, Calgary - ANS
Fb/Fc - 450, Nov. 10, Knights Lake, Waterton Lakes N.P. - SIL
Fc - Nov. 6, Ft. McMurray - Gulley (1979)
1979. Sc - 2, April 28, Bruce Lake - RAW
Eb - 1 female with a brood, June 12, Kananaskis Country - Wiseley (1979a)
- 1 female with 2 downy young, July 2, Finnegan - RUB
- several, July 31, Bow River, Gleichen to Cluny - CAW
W - 841, Dec. 16, Calgary - Christmas Bird Count
- 11, Dec. 30, Waterton Lakes N.P. - Christmas Bird Count
1980. S - migrating at night, March 23, Irricana - TSS
Eb - 1 female with 7 young, June 7, Indian Grave Campground area - HWP
- 4, Aug. 17, Calgary - ANS

Barrow's Goldeneye *(Bucephala islandica)*

Spring migration has been reported as April for Waterton Lakes National Park (Sharp 1973), and as April and May in Banff and Jasper National Parks (Holroyd & Van Tighem 1983).

There is an extralimital breeding record for Sturgeon Lake in 1973. It is interesting to note the number of males reported from east of the mountains in late spring and early summer.

Fall migration in Banff and Jasper National Parks is from August until November (Holroyd & Van Tighem 1983). In Waterton Lakes National Park, Sharp (1973) states that fall migration occurs in early November.

This species regularly winters in the Bow River valley from Banff to Calgary. There are also winter records for Edmonton, Wabamun Lake, Lethbridge, and Waterton Lakes National Park.

1971. Sa - 4, April 26, Shepard - ROL, DVW
S - 1 pair, May 13, Elk Island N.P. - ETJ
Sc - 8, May 30, Little Fish Lake - CFNS
Wa - 2 males, Nov. 10, Calgary - DVW
1972. Sa - 1 pair, April 14, northeast of Calgary - BIL, VGL
Sc - 3 pairs, May 28, Elk Island N.P. - EBC
Eb - 2 males, June 1, Irricana - DVW
- 3, June 15, Irricana - DVW
- 2 males, July 3, Irricana - DVW
- 50, July, Sieu Lake - Kondla et al. (1973)
1973. Ew - 5, Feb. 18, Wabamun Lake - LOG
Sa - 1 pair, April 25, Eagle Lake - WWS
Eb - 12 to 18, June 8-28, Winagami Lake - WWS
- 1 female with 4 young, June 11, Sturgeon Lake - KVT, CAW
Fc - 4, Oct. 3, Pyramid Lake, Jasper N.P. - BEB, GEB
1974. Sa - 2 pairs, April 21, Irricana - TSS
Sc - 1 male, May 21, Pekisko - HWP, CAR
B - 3 males & 2 females, June 4, 72 km west of Rocky Mountain House - DEJ, BAM
1975. Sa - 4, April 18, Carseland - HWP, CAR
S - 1 pair, May 3, Deville - DVW
- 1 pair, May 11, Edmonton - REG, ARS
1976. Sa - 1 male, April 12, Chain Lakes P.P. - REG
Sb - 20 males & 16 females, May 6, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Sc - 6 pairs, May 22, 22 km west of Cochrane - ADS, DOS, PHS
Fb - 30+, Oct. 10, Elk Island N.P. - SAJ, TAJ
Fc - 3, Nov. 2, Kananaskis Lake - Salt (1976)
- 3, Nov. 2, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Ew - 6, Dec. 9, Waterton Lakes N.P. - KEB
- 4, Dec. 19, Edmonton - Christmas Bird Count
1977. Sa - 2 females, April 6, Bergen - HWP, JOR
Sb - 53, May 9, Banff N.P. - Holroyd & Gartshore (1978)
S - 4 females, May 12, Edmonton - ECB, AAK, LCM
Fa - 4, Oct. 6, Irricana - RUB
Ew - 3, Dec. 26, Waterton Lakes N.P. - Christmas Bird Count
1978. Em - April 19, Ft. McMurray - Gulley (1979)
Fc - 30, Nov. 10, Knights Lake, Waterton Lakes N.P. - SIL
Ew - 1, Sundance Cooling Pond - Smith & Prach (1980)
- 2, Wabamun Lake - Smith & Prach (1980)
1979. Sc - 1 pair, May 17, Miquelon Lake - RUB
Fc - 1, Nov. 12, Edmonton - JIF
Wa - 2 males & 4 females, Nov. 12, Calgary - ANS
Ew - 1, Wabamun Lake - Smith & Prach (1980)
- 8, Dec. 26, Lethbridge - Christmas Bird Count
1980. Sa - 1 male, April 14, Cheadle - RAW
Wa - 3, Nov. 7, Calgary - ANS
W - 21, Dec. 20, Banff - Christmas Bird Count

Bufflehead *(Bucephala albeola)*

The first spring migrants appear in southern Alberta in late March and early April. In the Ft. MacKay area, the first birds arrive on April 25 (Francis & Lumbis 1979). Peak migration in Waterton Lakes National Park is in April (Sharp 1973); in Banff and Jasper National Parks, it is in late April and early May (Holroyd & Van Tighem 1983).

There are extralimital nesting records from the Cypress Hills, Beaverdam Lake, Paine Lake, and Waterton Lakes National Park. Non-breeding flocks occur on lakes in the grassland region during the summer.

Most birds leave southern Alberta by late October with some lingering until freeze-up. The peak for fall migration in Waterton Lakes National Park is during late October and early November (Sharp 1973).

Small numbers regularly winter at Calgary, with reports from Wabamun Lake, Edmonton, Galahad, Banff National Park, and Waterton Lakes National Park.

1971. W - 1 male & 1 female, Jan. 9, Calgary - VGL, DVW
Sa - 2, April 8, Strathmore - TSS
Eb - female flew out of nest hole, May 25, Reesor Lake - WWS, CRW
- 6 young, June 22, Jasper N.P. - DEB, MGS
B - 20+, June 28, Irricana - DVW
- 100+, Aug. 6, Irricana - DVW
Fa - 4, Oct. 7, Frank Lake - CDB, RDB
Fb - 69, Oct. 24, Calgary - RIP
Fc - 1 male, Nov. 22, Vermilion Lakes, Banff N.P. - BRG

1972. W - 1 male & 1 female, Feb. 27, Calgary - ALB, COB
Sa - 1 male, March 3, Blackie - MXC, BIL, VGL
Sb - 14, March 23, Stobart Lake - HWP, LIP
Sc - 1 pair, May 23, Lake Newell - HES, RYS
Eb - 1 female with 4 young, July 6, Waterton Lakes N.P. - Sharp (1973)
B - many summer records for Eagle Lake, Namaka Lake, and Irricana area with a high of 80 birds on July 24 - DVW
Fa - 40, Oct. 7, Rolling Hills Lake - ADB, CDB
Fc - 1, Nov. 29, Seebe - TSS

1973. Ew - 1, Feb. 18, Wabamun Lake - GWG, LOG, LOW, POW
Sa - 4 males, March 25, Brant - VGL
Sc - 12 males, April 23, Lac des Arcs - BIL, VGL
B - 1 male, June 8, Cereal - GWG, LOG
- 417 males & 83 females, June 13, Winagami Lake - WWS
- 35, June 27, Namaka Lake - VGL
Fb/Fc - 60 males, Oct. 29, Irricana - RUB
Ew - 6, Dec. 9, Wabamun Lake - LOG, TWT
- 2, Dec. 16, Edmonton - Christmas Bird Count
W - 1 male, Dec. 30, Calgary - Christmas Bird Count

1974. Sa - 2, April 6, Mossleigh - BEB, GEB
B - 3 pairs, June 7, Milk River near Wildhorse - WWS
- 2 pairs, June 9, Pinhorn Grazing Reserve - CAW
- 9, June 18 & 19, Little Fish Lake - WWS
- 7, June 27, Tyrrell Lake - BCM, RIP
- 1 female with 5 downy young, July 5, Caribou Mountains - Höhn & Burns (1975)
- 9, July 26, Irricana - RUB
Fb - 898, Sept. 23-26, Sturgeon Lake - Wiseley & Tull (1975)
Fc - 2, Nov. 23, Hastings Lake - DID, ROS, JIW

Ew - 1 female, Dec. 26, Wabamun Lake - RIP
1975. Ew - 1 pair, Jan. 19, Wabamun Lake - ERT, ALW
Sa - several, April 10, Calgary - KAM
B - 3, July 1, Pinhorn Grazing Reserve - WWS, CAW, CRW
- 6 females, July 6, Irricana - RUB
- 1 female, Aug. 7, Cypress Hills - RUB
Fa/Fb - 60, Oct. 12, Irricana - RUB
Fc - Oct. 25, Ruth Lake - Sharp & Richardson (1976)
- 15, Oct. 26, Irricana - RUB
W - 1, Dec. 28, Calgary - Christmas Bird Count
Ew - 24, Dec. 29, Wabamun Lake - RAE
1976. W - 1 female, Feb. 25, Calgary - BES, PES
Sa - 1 male, April 16, Maskinonge, Waterton Lakes N.P. - KEB
- 4, April 17, Keoma - RUB
Sb - 22, May 2, Chain Lakes P.P. - RUB, JIM
B - 16 males & 10 females, June 6, Irricana - RUB
Fb - 680, Nov. 1, Frank Lake - RUB
- 325, Nov. 2, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Fc - 30, Nov. 22, Knights Lake, Waterton Lakes N.P. - KEB
Ew - 20, Sundance Cooling Pond - Smith & Prach (1980)
- 14, Wabamun Lake - Smith & Prach (1980)
1977. Ew - 1 pair, Feb. 27, Galahad - JSS, KAS, DVW, LIW
Sa - 2 males, March 30, Calgary - JMP
B - 45 (mostly males), June 19, Frank Lake - RUB
- 30, Aug. 27, Irricana - RUB
Fb - 40, Oct. 23, Irricana - RUB
Fc - 2 females, Nov. 13, Calgary - PES
Ew - 2, Sundance Cooling Pond - Smith & Prach (1980)
- 5, Wabamun Lake - Smith & Prach (1980)
- 1, Dec. 26, Waterton Lakes N.P. - Christmas Bird Count
1978. Sa - 1 male, April 1, Cochrane - JMP
Sc - 20, May 7, Irricana - RUB
Eb - 1 female with brood, June 20, Beaverdam Lake - CAW
- 1 female with brood, June 21, Paine Lake - CAW
B - 33, July 1, Frank Lake & Irricana area - RUB
Fb/Fc - 400, Nov. 10, Knights Lake, Waterton Lakes N.P. - SIL
Ew - 7, Sundance Cooling Pond - Smith & Prach (1980)
- 16, Wabamun Lake - Smith & Prach (1980)
- 1, Dec. 17, Banff - Christmas Bird Count
W - 1, Dec. 17, Calgary - Christmas Bird Count
1979. Sa - 1 male, April 1, Calgary - ANS
Sb - 95, May 6, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Sc - 15, May 12, Calgary - MIB
B - 3 females, July 15, Irricana - RUB
Fc - 1 male, Nov. 11, Ghost Reservoir - SEA, JMP
- 1 male, Nov. 11, Barrier Lake - SEA, JMP
W - 1, Dec. 9, Calgary - RUB
- 1, Dec. 16, Calgary - Christmas Bird Count
Ew - 2, Sundance Cooling Pond - Smith & Prach (1980)
- 7, Wabamun Lake - Smith & Prach (1980)
1980. W - 1 male & 2 females, Jan. 20, Calgary - ANS
Sa - 1, April 12, Cheadle - TSS
Sb - 250, April 14, Eagle & Namaka Lakes - RAW
Fc - 12, Nov. 11, Calgary - ANS
Ew - 1, Dec. 21, Edmonton - Christmas Bird Count

Hooded Merganser *(Lophodytes cucullatus)*

The first birds usually arrive in southern Alberta in mid-April. This is in contrast to the arrival date of early May given by Salt & Salt (1976).

Prior to 1900, there are nesting records from Banff National Park, Crowsnest Pass, and Waterton Lakes National Park (Salt & Salt 1976). There is a nesting record from Waterton Lakes National Park in 1961 (Salt & Salt 1976) that is not listed by Sadler & Myres (1976). There are also nesting records from Longview in 1968 and 1969 (Sadler & Myres 1976). The authors are not aware of any nesting records for the 1970's.

In the fall, the first migrants in southern Alberta appear mainly in the first two weeks of September, with the last birds seen in early November. Salt & Salt (1976) state that in the fall groups of 20 and 30 gather. Our data shows that larger numbers are seen in the fall, but normal flock size is 5 to 10.

It may be that most of the recent Alberta records are of non-breeders or a result of post-breeding dispersal. For a more detailed discussion see Bellrose (1976). There were considerably more observations of this species during the 1970's than in the previous decade. It is interesting to note that most of the observations in the 1960's are for foothills-mountain areas. In the 1970's the majority of observations occurred outside of the foothills-mountain regions.

The first winter records for the province occurred in the latter part of the decade.

1971. Sa - 1 male, April 23, Calgary - ROL, DVW
S - 1 female, April 25, Lac des Arcs - DAD
- 2 males & 1 female, April 28, Jasper N.P. - DAD
Fa - 1 male, Sept. 11, Frank Lake - BIL, VGL
1972. Sa - 1 female, March 20, Carseland - CAW, CRW
S - 3, April 3, Maskinonge, Waterton Lakes N.P. - Sharp (1973)
- 1 female, April 4 & 7, Calgary - HWP, CAW, CRW
- 1 pair, April 9 & 12, Brant - GEA, WEB, WWS, CAW, CRW
Fa - 2, Sept. 12, Strathmore - VGL, DVW
Fc - 1 male, Oct. 14, Calgary - RIP
1973. Sa - 1 male, March 15, Seebe - VGL, CAR, DAW
S - 2 pairs, March 22, Calgary - SCO
- 1 male, March 31, Chestermere Lake - HAV
- 1 male, April 14, Frank Lake - BIL, VGL
- 1 pair, April 23, Linnet Lake, Waterton Lakes N.P. - JIB
- 1 female, April 30, Calgary - HWP, BIR, CAR
- 2 pairs, May 7, Calgary - VGL, HWP, CAR
- 1 male, May 11-20, Calgary - ANM, HWP, CAR, WWS
Sc - 1 female, May 29, Calgary - HWP
Eb - 1 pair, May 31, Sturgeon Lake - KVT, CAW
Fa - 6, Sept. 30, Banff N.P. - RNM
F - 5, Oct. 2, Edna Lake, Jasper N.P. - BEB, GEB
Fb/Fc - 2 males & 5 females, Oct. 8, Calgary - VGL
1974. Sa - 1 female, April 20, Pigeon Lake - WWS, CAW, CRW
S - 1 pair, May 3, Deville - JIW
- 1 female, May 20, Lindbrook - JOA
Sc - 1 immature male, May 21, Jenner - ETJ
Fa - 4, Sept. 17, Elk Island N.P. - MAM
Fb/Fc - 8, Nov. 10, Jasper N.P. - DID, ROS
1975. Sa - 1 female, April 16-18, Calgary - BIL, HWP, HAV

- 1 pair, April 18, Wildhorse - ETJ
S - 1 male & 2 females, April 24, Chestermere Lake - HAV
- 2 females, April 24, Cayley - HWP, CAR
Fa - 2 immatures, Sept. 2, Water Valley - Johnston (1976b)
F - 3 males & 3 females, Sept. 22, Beaverhill Lake - ROB, DVW
- 1 male & 1 female, Oct. 12, Calgary - EDQ
- 3 males, Oct. 27-29, Calgary - RUB, WWS
- 1 male & 1 female, Oct. 31, Carseland - RUB
- 2 males, Nov. 3, Calgary - RUB
Fc - 1 male & 1 female, Nov. 9, Calgary - ANS
1976. Sa - 1 male, April 16, Calgary - BOF
Eb - 1, Aug. 14 & 15, Burnstick Lake - RUB
Fa - 3, Sept. 11, McClelland Lake - Francis & Lumbis (1979)
F - 2, Oct. 24, Calgary - ANS
Fc - 1 male, Nov. 6, Calgary - DPD
1977. Sa - April 9, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, April 11, Irricana - TSS
S - 2, May 19, Ft. McMurray - Gulley (1983a)
- 1 male & 2 females, May 22, Beaverhill Lake - RIK
Sc - May 30, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Eb - 1 female, June 4, Bottrel - JMP
- 1 female, June 7, Elk Point - RIK
- 1 female, June 27, Burnstick Lake - JMP
Fa - Sept. 2, Banff N.P. - Holroyd & Gartshore (1978)
- 1 pair, Sept. 11, Beaverhill Lake - TWT, TEW
Fb - 18, Sept. 27, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
F - 1 male & 5 females, Oct. 9, Vermilion Lakes, Banff N.P. - JMP
1978. B - 4, May 28, Banff N.P. - Wiseley (1979b)
Fc - Nov. 8, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Ew - 2, Sundance Cooling Pond - Smith & Prach (1980)
1979. Sa - 9, April 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
S - 1 male, April 27, Cochrane - KEM
- 1, May 18, Ft. McMurray - Gulley (1983a)
Sc - 1 male, May 24, Calgary - PAF, JOT
B - July 27, Jasper N.P. - Holroyd & Van Tighem (1983)
Fa - 5, Sept. 6, Lac des Arcs - Wiseley (1979a)
F - 1 male, Oct. 9, Calgary - JOR
Ew - 6, Sundance Cooling Pond - Smith & Prach (1980)
1980. Sa - 1, March 31, Calgary - OLD
S - 1, April 14, Cheadle - TSS
- 1 male, May 8, Calgary - DAE, HWP
- 1, May 11, Calgary - ANS
- 1 male, May 26 & 27, Calgary - DAE, HWP, JOR
Sc - 1, June 1, Calgary - ANS
Fa - 1 male & 4 females/immatures, Sept. 13, Calgary - MTM
F - 2, Oct. 12, Calgary - ANS
- 1 male, Nov. 1, Calgary - JOT
Fc - 1, Nov. 11, Calgary - ANS
Ew - 1, Dec. 21, Calgary - Christmas Bird Count

Common Merganser ***(Mergus merganser)***

In the spring the first birds are seen in Waterton Lakes National Park in early March (Sharp 1973). Francis & Lumbis (1979) state that the arrival date in the Ft. MacKay area is April 12. Peak migration in Banff and Jasper National Parks is during the first half of April (Holroyd & Van Tighem 1983).

There are extralimital nesting records from Medicine Hat, east of Red Deer, the Cypress Hills, and along the Bow River east of Calgary to Cluny.

Francis & Lumbis (1979) state that the last fall departure date from the Ft. MacKay area is September 18. In Banff and Jasper National Parks the peak of fall migration is in early October (Holroyd & Van Tighem 1983).

Common Mergansers regularly winter at Calgary in small numbers. There are also winter records from Ft. McMurray, Wabamun Lake, Edmonton, Jasper National Park, Seebe, and Lethbridge.

1971. W - 16, Feb. 7, Calgary - RIP
Sb - 35, April 9, Exshaw - HAV
- 35, April 9, Calgary - VGL
Sc - 2 females, May 4, Swalwell - JAC, MAC
Eb - brood of young with adults, July 4, near Medicine Hat - RWF, RES (Kondla & Pinel 1973b)
Fb - 36, Oct. 10, Calgary - WGM
1972. Sb - 18 males & 6 females, April 9, Little Bow Lake - HWP, LIP
Eb - 14 young, June 29, Calgary - HWP
Fc - 1, Nov. 5, Edmonton - JIW
1973. Ew - 3, Feb. 18, Wabamun Lake - GWG, LOG, LOW, POW
Eb - 8 young, June 22, Calgary - HWP
Fb - 27, Oct. 4, Athabasca River, Jasper N.P. - BEB, GEB
Ew - 2, Dec. 16, Edmonton - Christmas Bird Count
1974. Eb - 10-12, July 20, east of Red Deer on river - DID, JIW
Fb - 40+, Sept. 20, Calgary - HWP
Fc - 1, Oct. 19, Edmonton - BEB, GEB
1975. Eb - 1 female with brood, early July, Graburn Creek, Cypress Hills - CRW
- 6 females/immatures, Aug. 6, Milk River Ridge Reservoir - RUB
Ew - 1, Dec. 21, Edmonton - Christmas Bird Count
- 4, Dec. 26, Lethbridge - Christmas Bird Count
1976. Sb - 30, April 17, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Sc - 1 pair, May 7, Writing-on-Stone P.P. - WWS, CAW, CRW
B - 1 pair, July 3, Reesor Lake - SAJ
Fb - 74, Oct. 28, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Ew - 2, Wabamun Lake - Smith & Prach (1980)
1977. W - 8, Feb. 27, Seebe - GRW
Eb - 11 young, July 13, Ft. Macleod - ALM
Ew - 1, Dec. 18, Edmonton - Christmas Bird Count
W - 49, Dec. 27, Calgary - Christmas Bird Count
Ew - 2, Dec. 28, Ft. McMurray - Christmas Bird Count
- 2, Wabamun Lake - Smith & Prach (1980)
1978. Sc - 1 male, May 2, Milk River near Wildhorse - CAW, CRW, RAW
Fb - 80, Sept. 10, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
- 37, Nov. 9, Waterton Lakes N.P. - SIL
Ew - 1, Dec. 17, Ft. McMurray - Christmas Bird Count

- 1, Sundance Cooling Pond - Smith & Prach (1980)
1979. Ew - 2, Jan. 29, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - family groups on Bow River, July 30-31, Carseland to Cluny - CAW
Fb - 80, Oct. 15, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Ew - 1, Dec. 16, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
- 4, Dec. 26, Lethbridge - Christmas Bird Count
1980. Sb - 50, April 14, Calgary - RAW
W - 23, Dec. 21, Calgary - Christmas Bird Count
Ew - 1, Dec. 21, Edmonton - Christmas Bird Count

Red-breasted Merganser *(Mergus serrator)*

In southern Alberta the first spring migrants arrive from April 1 to 19, with most having left by late April or early May to continue northward. Francis & Lumbis (1979) give the spring arrival date in the Ft. MacKay area as May 1.

Salt & Salt (1976) state that the only definite nesting records are from the Lake Athabasca area, although there are summer observations locally across the northern third of the province. There is a documented nesting record from the Caribou Mountains in 1974.

Fall records in southern Alberta are few.

The second to fourth winter records for the province occurred in 1977. Interestingly, Salt & Salt (1976) note that this species occasionally winters at Regina, Saskatchewan.

1971. Sa - 1, April 14, Calgary - RIP
Sb - 4 males & 1 female, April 20, Calgary - DVW
Sc - 4, April 25, Conrich - VGL, WGM
Eb - 1 pair, June 4, Reesor Lake - WWS
1972. Sa - 12 males, April 15, Calgary - DVW
Sb - 14 males & 10 females, April 23, Chestermere Lake - HAV
Sc - 1 male & 2 females, May 11, Waterton Lakes N.P. - Sharp (1973)
1973. Sa - 1, April 1, Nevis - GRG, PAG, LML
Sb - 50, April 25, Eagle Lake - BIL, RIP
Sc - 1 male, May 27, Calgary - GRW
- 1 male, May 29, Sturgeon Lake - KVT, CAW
Eb - 2 females, July, Sturgeon Lake - KVT, CAW
- 1, July 21, Beaverhill Lake - GWG, LOG
Fa - 1, Aug. 17, Calgary - HWP, CAR
Fc - 3, Oct. 22, Lac Ste. Anne - GEP
1974. Sa - 1 pair, April 19, Chestermere Lake - HAV
Sb - 20, April 24, Little Fish Lake - WWS, CAW
Sc - 1 male, May 17, Brooks - GWG, LOG
Eb - female flushed from nest with 8 eggs, July 2, Pitchimi Lake - Höhn & Burns (1975)
Fb - 58, Sept. 23-26, Sturgeon Lake - Gunn et al. (1975)
1975. Sa - 1 female, April 12, Edmonton - BIG, DEG
- 4 males, April 14, Waterton River, Waterton Lakes N.P. - KEB
- 1 male, April 19, Calgary - HWP
Sb - 21, April 27, Wabamun Lake - JIW
Sc - 1 male, May 11, Beaverhill Lake - PAP
F - 1 female, Oct. 31, Carseland - RUB

- 4 females, Nov. 2, Irricana - RUB
Fc - 1 female, Nov. 4, Calgary - RUB
1976. Sa - 1 male, April 11, Keoma - ANS
Sb - 57, April 17, Beaverhill Lake - MRB, DVW, LIW
Sc - 6 males & 24 females, June 9, Cold Lake - WWS
Eb - "breeding in summer", Lesser Slave Lake - Bradley (1980a)
- 8, July 26, Pinehurst Lake - KWT
Fc - 12, Nov. 6, Frank Lake - RUB
1977. Sa - 4 males, April 10, Edmonton - DVW, LIW
Sb - 69 males & 10 females, April 11, Beaverhill Lake - DVW, LIW
Sc - 2 males, May 7, Beaverhill Lake - DVW
Ew - 1, Dec. 17, Banff - Christmas Bird Count
- 2, Sundance Cooling Pond - Smith & Prach (1980)
- 1, Wabamun Lake - Smith & Prach (1980)
1978. Sa - 1 male, April 5, Calgary - GES
- April 30, Hay-Zama Lakes - Gollop (1978)
Sc - June 8, North Saskatchewan River, Jasper N.P. - Holroyd & Van Tighem (1983)
B - 1, June 29, Gypsy Lake near Ft. McMurray - Bradley (1980b)
Fc - 3, Nov. 8, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
1979. Sa - 2 males, April 14, Calgary - ADS
Sb - 20, April 28, Bruce Lake - RAW
Sc - 13, May 12, Irricana - RUB
1980. S - 3, May 3, Calgary - ANS

Ruddy Duck *(Oxyura jamaicensis)*

In southern Alberta, the first spring birds arrived between April 10 and 21, with the exception of 1972. The records indicate a peak in spring migration at the end of April.

Turner & Weaver (1980) estimated that Ruddy Duck breeding populations in southern Alberta ranged from 180,700 in 1975 to 32,900 in 1976.

Most Ruddy Ducks have left by the end of September, with some lingering into November. Sharp (1973) indicates that major waves pass through Waterton Lakes National Park between the end of September and the third week of October.

The first five winter records for the province occurred during the 1970's at Wabamun Lake and Galahad.

1971. Sa - 1, April 21, Shepard - DVW
Fc - 1 male & 1 female, Sept. 18, Calgary - VGL
1972. Sa - 1 male, March 26, Calgary - HAV
Sb - 150, April 30, Strathmore - CFNS
Fc - 1, Nov. 18, Hastings Lake - LOG
1973. Sa - 1 female, April 15, Waterton River, Waterton Lakes N.P. - KEB
Sb - 250-300, April 28, Blizzard Lake - BIL, VGL, CAR
Fc - 3, Oct. 27, Elk Island N.P. - DEG
- 1, Oct. 27, Lindbrook - LOG
- 6, Oct. 28, Irricana - RUB
1974. Sa - 2, April 16, Cheadle - TSS
- 1, April 22, Camrose - JIW
Sb - 400+, April 28, Namaka Lake - HWP, CAR
Fb - 190, Oct. 20, Frank Lake - LIM, DVW
Fc - 2, Nov. 23, Wabamun Lake - WAR, ERT

1975. Sa - 1 female, April 13, Stettler - GRG, PAG
- 4 males & 1 female, April 18, Carseland - HWP, CAR
Fc - 6, Nov. 3, Calgary - HWP
Ew - 2 males & 1 female, Dec. 28, Galahad - KAS
1976. Ew - 4 males, March 17, Galahad - KAS
Sa - 5, April 11, Frank Lake - WWS
Fb - 1,000+, Sept. 21-26, Frank Lake - RUB
Fc - 30, Nov. 6, Frank Lake - RUB
Ew - 21, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Ew - 3 males, Feb. 10 & 27, Galahad - JSS, KAS, DVW, LIW
Sa - 1 male, April 10, Big Lake - LUB, PED
- 2 males, April 16, Namaka Lake - HWP
Sb - 30, May 9, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983). This was the maximum number recorded for Banff-Jasper N.P.
Fc - Oct. 23, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 7, Nov. 6, Frank Lake - RUB
1978. Sa - 1 pair, April 12, Ardenode - MIR
B - 2, July 7, Wildhorse - RUB
Eb - 4, July 21, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 1 female, Nov. 5, Milo - RUB
1979. Sa - April 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - June 9, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 200+, Sept. 17, Frank Lake - RUB
Ew - 4, Dec. 23, Wabamun Lake - Christmas Bird Count
1980. Sa - 4, April 21, Cheadle - TSS
Fb - 100, Sept. 14, Eagle Lake - CFNS

FAMILY: CATHARTIDAE

Turkey Vulture *(Cathartes aura)*

In Alberta, this species is at the northernmost limit of its North American range. Records are few and scattered, but there is some indication that this species arrives in Alberta in early May.

Range maps in Salt & Salt (1976) appear to accurately reflect the Alberta distribution. However, the range map in Godfrey (1986) is in error. Summer records are concentrated in the Cold Lake and Big Valley areas. Salt & Salt (1976) indicate nesting at Mann Lakes. There is a traditional nest site at Big Valley that has been used for the last 50 years (C. Stoneman, pers. comm.). Historically, this species appears to have been more common on the lower Red Deer River than it is today. Taverner (1919) "saw aggregations of a dozen to twenty a number of times" in 1917. Kondla (1978) reports that a local rancher in the Dinosaur Provincial Park area, H. Sandgathe, told of having seen a few birds every year until about 1968.

There are very few fall records. It appears that most leave sometime in August, soon after the young can fly. A significant number of birds for Alberta were seen in August of 1972.

1971. B - 2, July 1, Cold Lake - GEK
Fc - 1, Oct. 3, Grassy Lake - WWS
1972. B - 6, May 16, Dry Island Buffalo Jump P.P. - WWS

- a minimum of 12, June 1 to July 27, Dry Island Buffalo Jump P.P. - WWS
- 24, first week of Aug., Rumsey - ARC, ECM. In thirty years, this was the largest number seen in the area.

F - 1, Aug. 21, Elk Island N.P. - Burns et al. (1986)
- 1, Aug. 22, Lac la Biche - BIL, VGL

Fc - 1, Sept. 28, Frank Lake - CDB, DAL

1973. Sa - 1, April 14, Aldersyde - BIL, VGL
S - 1, May 7, Sedgewick - ACB
B - 2, May 20, Munson Ferry - ETJ
- 2, seen on two occasions in late May, Big Knife P.P. - Ebel et al. (1973d)
- 1, June 16, Marie Lake, northwest of Cold Lake - GWG, LOG
- 1, June 17, Beauvallon - GWG, LOG

1974. B - 1, May 18, Elkwater - LIM, DVW
- 1, June 27, Milk River - BCM, RIP
- 1, June 30, Elkwater - BCM, RIP

F - 1, Aug. 30, Dunstable - BIL, VGL

1975. Sa - 1, April 23, Tofield - JEB, URB
Em/Eb - 1, May 28, Longview - KSC, JOD
B - 3, July 20, Dry Island Buffalo Jump P.P. - JIM

1976. B - 3, June 6, Smoky Lake - WWS
- 1, June 9, Cold Lake - WWS
- 1, July 3, Wildhorse - AAJ, SAJ, JOW
- 3, July 27, Spruce Coulee Reservoir - HWP
- 2 juveniles, Aug. 6, Huxley - GRG

1977. S - 1, May 7, Beynon - HWP, JOR
B - 1, June 11, Dry Island Buffalo Jump P.P. - HWP, JOR
- 2, June 24, Red Deer River near Lousana - CAW
- 1, Aug. 1, Dinosaur P.P. - ADS, DOS, PHS

1978. S - 1, May 2, Calgary - JMP
1979. B - 1, July 12, Cypress Hills - CAW, CRW
1980. B - 1, June 18, Bindloss - CRW

FAMILY: ACCIPITRIDAE

Osprey *(Pandion haliaetus)*

This species arrives in southern Alberta in the last half of April. Holroyd & Van Tighem (1983) record an unusually early spring date for 1971 and a spring peak of May for Banff and Jasper National Parks.

Sharp (1973) states that Ospreys are very rare in Waterton Lakes National Park and have not nested since 1939. Holroyd & Van Tighem (1983) list 12 nests in Jasper National Park and 6 nests in Banff National Park since 1970. Francis & Lumbis (1979) found only five breeding pairs in 1976 in their 28,000 sq. km study area in the Ft. Chipewyan area.

Fall migration occurs during September. However, there are some unusually late migration dates, especially in 1980. In the 1970's, there were considerably more migration records from grassland lakes and river valleys than in the 1960's.

In 1980 there was a highly unusual winter observation from the Lethbridge area. Apart from the resident Florida population, the winter range of the Osprey barely extends northward into the United States.

1971. Sa - March 11, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - 1, June 21, Elkwater Lake - WWS
Fc - 1, Sept. 21, Mattoyekiu Lake - DVW
1972. Sa - 1, April 19, Waterton Lakes N.P. - Sharp (1973)
Sc - 1, May 14, Calgary - HAV
Fa - 1, Aug. 27, Calgary - WWS
Fc - 1, Sept. 9, Carseland - GEA, WEB
- 2, Sept. 10, Cold Lake - WWS, CRW
1973. Sa - 1, April 25, Maskinonge, Waterton Lakes N.P. - KEB
Fc - 1, Sept. 30, Wildwood - RNM
1974. Sa - 1, April 28, Beaverhill Lake - GRG, LOG
- 1, April 28, Eagle Lake - HWP
Sc - 1, May 28, Buffalo - CAW
Fc - 1, Oct. 26, Vermilion Lakes, Banff N.P. - DPD, SAD
1975. Sa - 2, April 21, Wabamun Lake - JEB
Sc - 1, May 6, Tofield - DID
Eb - 1, June 3, Elkwater Lake - WWS
- 1, June 24, Calgary - BIL
B - 8 nests (7 productive), July, Canadian Shield near Lake Athabasca - Bishoff & Fyfe (1976)
Fa - 1, Aug. 5, Calgary - RUJ
Fc - 1, Sept. 13, Water Valley - Johnston (1976b)
1976. Sa - 1, April 25, Carseland - LIF, WIF
Fc - 1, Oct. 17, just east of Waterton Lakes N.P. - JHT
1977. Sa - April 15, Banff N.P. - Holroyd & Gartshore (1978)
S - 1 flying north, April 30, Milk River near Wildhorse - CAW, CRW, RAW
Fc - Oct. 14, Ft. McMurray - Gulley (1979)
1978. Sa - April 13, Ft. McMurray - Gulley (1979)
Sc - 1, May 28, Calgary - EDQ
1979. Sa - 1, April 20, Calgary - JOT
B - 1 pair at nest, April 30, Waterton Lakes N.P. - WWS
Fa - 1, Aug. 25, Calgary - BAC, DUC
Fc - 1, Sept. 23, Longview - BAC, DUC
1980. Sa - 1, April 10, Calgary - OLD
Eb - 1, June 29, Cochrane - ANS
B - 1, July 16, Chain Lakes P.P. - AJF
Fc - 1, Nov. 23, Lac La Nonne - GOB
Ew - 1, Dec. 27 (+/- 1 week), Lethbridge - Christmas Bird Count period (no substantiating details)

Bald Eagle *(Haliaeetus leucocephalus)*

In the spring this species arrives in southern Alberta in the first half of March. Francis & Lumbis (1979) record spring arrival and fall departure dates as early April and early November, respectively, for the Ft. MacKay area. Dekker (1984c) gives an excellent account of migration east of Edmonton. Between 1964 and 1983, he observed 813 Bald Eagles: 187 in the spring (March 31 to May 5) and 626 in the fall (September 15 to December 18). In the spring, immatures had a longer migration period than adults. The ratio of adults to immatures was 1:2.5. In the fall, immatures were three weeks in advance of adults. The ratio of adults to immatures was 1:1. Fall migration lasted over twice as long as spring migration and peaked in November. An interesting note is that of 118 attempts at catching ducks, only 14 were successful.

In Waterton Lakes National Park, Bald Eagles apparently have not nested since 1965 (Sharp 1973). Holroyd & Van Tighem (1983) list only one recent nest from Banff and Jasper National Parks: Vermilion Lakes 1973 to 1979, 1981. Francis & Lumbis (1979) state that there were 18 productive nests and 8 non-productive occupied nests in the Ft. Chipewyan study area in 1976. At Bistcho Lake, Schaafsma (1975) indicates that the number of nests went from 4 in 1973 to 11 in 1974.

In Calgary, there are winter records for every year in the 1970's with a maximum of eight individuals. Sadler & Myres (1976) had winter records for Calgary for only four years in the 1960's, with a maximum of two birds. Outside of the Calgary area, winter records are rare.

1971. Ew - 1, Feb. 26, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Sa - 1 adult, March 7, Bragg Creek - RFC
Sb - 5, April 10, Dorothy - WGM
Sc - 1, April 26, Cochrane - LEH
Fa - 1 immature, Sept. 6, Hussar - BIL, VGL, WGM
Fc - 1 adult, Nov. 15, Banff N.P. - BRG
1972. Sa - 1 adult, March 4, Calgary - COB
Sc - 1 immature, May 13, Cluny - BIL, VGL
B - 8 active nests, May 31, Bistcho Lake - Schaafsma (1975)
Eb - 1 young, June 20, Lesser Slave Lake - GRG
B - 1 adult & 1 immature, July 25, Bellevue Ridge, Waterton Lakes N.P. - Sharp (1973)
Fa - 1 immature, Sept. 30, Water Valley - WWS, CRW
Fc - 1 adult, Dec. 12, Wainwright - CDB, LEH
Ew - 1, Dec. 24, Nevis - GRG, PAG, LML
1973. Ew - 1 adult, Feb. 18, Blue Rock Creek - WWS, CRW
Sa - 2, March 10, Drayton Valley - GWG, LOG
Sc - 1, May 5, Cochrane - PJS
Eb - 1 adult, June 8, Winagami Lake - WWS
- 1 pair raised 1 young, summer, Vermilion Lakes, Banff N.P. - BRG
- 1 adult, June 18, Sturgeon Lake - WWS, KVT, CAW
B - 4 active nests, July 6, Bistcho Lake - Schaafsma (1975)
Mp - 1, Aug. 6, Entrance - LUB, DID
Fa - 1 immature, Sept. 15, Beaverhill Lake - DID
Fb - 20+, Nov. 6, Yarrow Creek - BRM
- 10, Nov. 9-11, Wabamun Lake - HWS
Fc - 1 adult, Dec. 2, Namao - MAM, PAM
- 1 adult, Dec, 3, Delacour - PTB
Ew - 1 adult, Dec. 15, Clyde - FRT, HET
1974. Ew - 1 immature, Jan. 25, Edmonton - JEB
W - 3 adults & 5 immatures, Jan. 27, Calgary - ADM, JIM
Sa/Sb - 12 (including 1 immature), March 19, Black Diamond to High River - HWP, CAR
Sb - 5 adults & 3 immatures, March 27, Water Valley - WWS, CAW
B - 11 active nests, May 12, Bistcho Lake - Schaafsma (1975)
Sc - 1 immature, May 25, Beaverhill Lake - DID, JIW
Eb - 1, July 9, Wildcat Hills - Crack & Danielson (1974e)
Fa - 1 immature, Sept. 20, Shepard - HWP
Fb - 16, Nov. 17, Cooking Lake - Wolford (1975a)
Fc - 1 adult, Nov. 27, Calgary - HWP
- 2, Dec. 8, St. Albert - LUB, PED
1975. Ew - 1 immature, Jan. 19 to Feb. 2, Edmonton - BEB, GEB, DEG, GCG
Sa - 1 adult, March 12, Longview - HWP
Sb - 7, April 20, Tofield - ROS

Sc - 1, May 1, Irricana - TSS
B - 1 on nest, June 14, Banff N.P. - Butot (1975d)
- 52 nests found (29 productive), July, Canadian Shield near Lake Athabasca - Bishoff & Fyfe (1976)
Fa - 1 immature, Sept. 7, Calgary - HAB
Fc - 1 adult, Nov. 14, Schuler - HWP
- 1 immature, Nov. 14, Buffalo - HWP
- 2 immatures, Nov. 16, Edmonton - GRS
- 1 adult, Nov. 16, St. Albert - MUD
Ew - 1, Dec. 27, Banff N.P. - Holroyd & Van Tighem (1983)
- 1 adult, Dec. 28, Galahad - KAS
- 1 adult & 1 immature, Dec. 29, Wabamun Lake - RAE
W - 2 adults & 3 immatures, Dec. 28, Calgary - RUB
1976. Ew - 1, Feb. 18, Hillspring - DTC, NEC
Sa - 4 adults, March 14, Cochrane - EMG, WGG
Sc - 1 adult, April 6, Millarville - BOD
Eb - 1 adult, June 22, Cold Lake - WWS
B - 18 productive nests & 8 non-productive nests in the Birch Mountains and Canadian Shield in Ft. Chipewyan area - Francis & Lumbis (1979)
Eb/Mp - 1, July 3, Elkwater - SAJ
Fa - 1 immature, Oct. 5, Calgary - GES
Fb - 15, Nov. 16, Cooking Lake - Dekker (1984c)
Fc - 2 adults, Nov. 21, Miquelon Lake - WWS
1977. Ew - 1, Feb. 9, Banff N.P. - Holroyd & Van Tighem (1983)
- 2 to 3 birds, Feb. 10-27, Galahad - KAS
Sa - 1 adult, March 3, Cochrane - BRG
Sb - 7 adults & 1 immature - March 20, Black Diamond - RAH, JIM
Sc - 1 immature, April 17, Cochrane - JMP
Fb - 11, Nov. 11, Cooking Lake - Dekker (1984c)
Fc - 1 adult, Nov. 25, Edmonton - ERE
Ew - 1, Dec. 26, Waterton Lakes N.P. - Christmas Bird Count
1978. Sa - 1 adult, March 5, Bottrel - ANS
- 1 adult, March 9, Grovedale - GEC
Sb - 4 adults & 1 immature, March 31, Ghost Reservoir - DUC
Sc - 1 immature, May 15, Black Diamond - PAB, JOL
Fa - 1 immature, Oct. 14, Bergen - RIP
Fc - 1 adult, Dec. 10, Cochrane - CLH
Ew - 1, Dec. 17, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, winter of 1978/79, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
1979. Ew - 1, Jan. 30, Wandering River - Gulley (1983b)
- 1 immature, Feb. 29, Cynthia - WWS
Sa - 1 adult, March 3, Caroline - LOD, DIP
- 1, March 4, Springbank - MRC, DOH
Sc - 1 immature, April 29, Carstairs - ADS, DOS, PHS
Fa - 1 immature, Oct. 9, Morley - RUB
Fc - 7, Nov. 26, Hermit Lake - ELC, GEC
Ew - 1, Dec. 16, Banff N.P. - Holroyd & Van Tighem (1983)
1980. Ew - 1, Feb. 27, Wandering River - Gulley (1983b)
Sc - 1, April 18, Whaleback Ridge - CRW, RAW
Fb - 10 & 5, Nov. 23, Cooking Lake & Hastings Lake respectively - MRD
Ew - 1, Dec. 2, Wandering River - Gulley (1983b)
W - 8, Dec. 21, Calgary - Christmas Bird Count

Northern Harrier *(Circus cyaneus)*

In southern Alberta, the first spring migrants arrive in mid-March with a peak in mid-April. Males are usually the first to return. Francis & Lumbis (1979) give the arrival date in the Ft. MacKay area as March 31. Holroyd & Van Tighem (1983) list the Northern Harrier as a very rare spring migrant in Banff and Jasper National Parks.

Northern Harriers are quite local in the mountains and the northern part of Alberta. Sharp (1973) states that the first nest for Waterton Lakes National Park was "found in a spruce in the Crooked Creek basin May 6, 1969" and a second nest was found in 1972. If the 1969 nest record for Waterton Lakes National Park is accurate, it is highly unusual because of the nest site indicated. Holroyd & Van Tighem (1983) call this species a very rare visitor in the summer in Banff and Jasper National Parks and list no nests. Francis & Lumbis (1979) found no nests, but assumed Northern Harriers did nest in the Ft. MacKay area.

Francis & Lumbis (1979) state that the departure date for the Ft. MacKay area was October 3. Holroyd & Van Tighem (1983) call this species a fairly common migrant in the fall in Banff and Jasper National Parks with migration lasting until late September and composed mainly of immatures. In southern Alberta, stragglers remain until late October and early November.

There are two winter records for the decade.

1971. Sa - 1, March 12, Calgary - JOP
Fc - 1, Nov. 5, Beaverhill Lake - DID, LOG
1972. Sa - 1 male, March 12, Pekisko - CAW, CRW
B - 1 pair & 3 young, July 24, Waterton Lakes N.P. - Sharp (1973)
Fb - 4 males & 2 females, Sept. 24, Chestermere Lake - HAV
- 6, Oct. 5, Frank Lake - CDB
Fc - 1 male, Nov. 18, Calgary - HAV
1973. Sa - 1 male, March 4, Carseland - BIL, VGL, WGM
Sb - 6 males & 7 females, April 21, Tofield - GWG, LOG
Fb - 12, Oct. 7, Tofield - GWG, LOG
Fc - 2, Oct. 21, Knights Lake, Waterton Lakes N.P. - JIB
- 1, Oct. 21, Onefour - WWS
- 1, Oct. 27, Tofield - DID, LOG
1974. Sa - 1 male & 1 female, March 16, Carseland - BIL, VGL
Sb - 5 males & 18 females, April 12, Tofield - GWG, LOG, TWT
- 20, April 24, Little Fish Lake - WWS, CAW
Fc - 1, Nov. 17, Caroline - WAR
- 1 female, Dec. 1, Shepard - WIH
1975. Ew - 1 male, Jan. 26, High River - ANS, LIS
Sa - 1 male, March 17, Carseland - WWS
Sb - 12, April 19, Tofield - DID
Fc - 1, Nov. 1, Fawcett - RIC
1976. Sa - 2 males, March 20, Herronton - BES, PES
Sb - 12, April 11, Frank Lake - WWS
Fc - 1 female, Nov. 14, McGregor Lake - RUB
1977. Sa - 1 male, March 19, Strathmore - JIM
- 2 males, March 26, Galahad - KAS
- March 31, Ft. MacKay area - Francis & Lumbis (1979)
Sb - 8, March 21, Mazeppa - GRW
Fc - 1 male, Nov. 5, Calgary - PES
1978. Sa - 1 male, March 24, Calgary - KAD
- 1 female, March 24, Priddis - ADS, DOS, PHS

- 1 female, March 24, Ghost Reservoir - DUC
- March 28, Wandering River - Gulley (1983b)

Fb - 6, Sept. 10, Namaka Lake - RUB
Fc - 1 female, Oct. 28, High River - MIR
- 1 male, Oct. 28, Pulteney - HWP
- 1, Oct. 28, Bottrel - DUC
- 3, Nov. 9, Waterton Lakes N.P. - SIL

Ew - 1, Dec. 26, Lethbridge - Christmas Bird Count
1979. Sa - 1 male, March 11, Namaka Lake - BIL, LOL
- 1, March 14, Kingman - KWT
- March 22, Wandering River - Gulley (1983b)

Sb - 12, April 13, Namaka Lake - WWS
Fb - 9, Aug. 9, Clearwater River, Banff N.P. - Holroyd & Van Tighem (1983)
- 10+, Oct. 23, Pollockville area - HWP

Fc - 1, Nov. 24, Bear Lake - ELC, GEC
1980. Sa - March 29, Wandering River - Gulley (1983b)
- 1, March 29, Cheadle - TSS

Fc - 1, Nov. 16, Eagle Lake - ANS
- 4, Nov. 30, Egg Lake - PSA, DVC, JIL, SYL

Sharp-shinned Hawk *(Accipiter striatus)*

The first birds usually arrive around mid-April with a few early exceptions. This is earlier than the "last ten days of April" as stated by Sadler & Myres (1976).

The first fall migrants are recorded in the latter half of August. Usually most birds have left the province by mid-October.

There are ten winter records from six locations.

1971. Sa - 1, April 10, East Coulee - Kondla et al. (1973)
Fa - 1, Aug. 10, Brooks - WWS
Fc - 1, Oct. 11, Turner Valley - WGM
Ew - 1, Dec. 19, Edmonton - Christmas Bird Count
1972. Sa - 1, April 19, Ensign - BIL, VGL
Sc - 1, May 10, Calgary - HWP, LIP
Eb - 1, May 31, Dry Island Buffalo Jump P.P. - WWS
Fa - 1, Sept. 1, Beynon - MAB
Fc - 1, Oct. 12, Calgary - RIP
1973. Sa - 1, March 13, Priddis - BJJ
Sc - 3, May 10, Tofield - DID
Eb - 1, June 24, Czar - GRG, PAG
Fa - 2, Aug. 24, Calgary - WWS
Fc - 1, Oct. 14, Water Valley - WWS
1974. Sa - 1, March 1, Calgary - HWP, CAR
Sc - 1, May 4, Milk River near Wildhorse - WWS
Fa - 1, Aug. 20, Calgary - HWP, WWS
Fc - 1, Oct. 10, Calgary - HWP
1975. Sc - 1, May 7, Cheadle - TSS
Eb - 1, July 17, Calgary - BIL
Fa - 1, Aug. 30, Priddis - RUB
Fc - 1, Oct. 19, Carseland - ANS
1976. Sc - 1, April 29, Calgary - BOF
Fa - 1, Aug. 20, Calgary - ELH
Fc - 1, Nov. 7, Eagle Lake - JOD

Ew - 1, Dec. 19, Wembley - Christmas Bird Count
- 1, Dec. 22, Nordegg - JDL

1977. Ew - 1, Jan. 5, Calgary - AJF
Sa - 3, April 10, Cochrane - JMP
B - 1, July 24, Rock Island Lake, Caribou Mountains - Höhn & Weseloh (1978)
Fa - 2, Aug. 21, Calgary - JOD, JMP
Fc - Oct. 3, Ft. McMurray - Gulley (1979)
- 1, Oct. 17, Cochrane - AJF
Ew - 2, Dec. 17, Banff - Christmas Bird Count
- 1, Dec. 18, Edmonton - Christmas Bird Count

1978. Ew - 1 (found dead), Jan., Edmonton - THB
Sa - 1, April 7, Ft. McMurray - BRW
Sc - 1, April 23, Strathmore - JOR
Fc - 1, Oct. 8, Veteran - ADS, DOS, PHS
Ew - 1, Dec. 26, Lethbridge - Christmas Bird Count

1979. Sa - 2, March 23, Calgary - BSD
Sc - 1, May 16, Chestermere Lake - ANS
Fa - 1, Aug. 30, Water Valley - SFJ
Fc - 1, Oct. 29, Calgary - HWP

1980. Ew - 1 adult, Jan. 2, Calgary - CRW
Sa - 1, April 18, Whaleback Ridge - CRW, RAW
Fa - 1, Sept. 4, Calgary - HWP
Fc - 1, Oct. 20, Calgary - OLD
Ew - 1, Dec. 20, Banff - Christmas Bird Count

Cooper's Hawk ***(Accipiter cooperii)***

This species arrives in southern Alberta at the end of March or beginning of April.

During this decade, Cooper's Hawks were found nesting in the Cypress Hills for the first time. Francis & Lumbis (1979) state that this species is sporadic in the Ft. MacKay area. Höhn (1983) describes "a female breeding in brown plumage for approximately four years." Holroyd & Van Tighem (1983) call this species a rare resident in Banff and Jasper National Parks.

The first fall migrants appear at the end of August with the last birds leaving by late September to early October.

During the decade, there were thirteen winter records from eight locations.

1971. Ew - 1, Feb 19, Calgary - BJJ
Sa - 1, March 22, Beynon - MAB (Kondla et al. 1973)
Eb - 1, May 26, Elkwater - WWS
- 1, May 27, Battle Creek, Cypress Hills - WWS
- nest, Sylvan Lake - Houston (1971c)
Fa - 1, Aug. 14, Calgary - WWS
Fc - 1, Oct. 7, Carmangay - CDB
Ew - 1, Dec. 19, Edmonton - Christmas Bird Count
- 1, Dec. 27, Calgary - Christmas Bird Count

1972. Ew - 1, Jan. 15, Beynon - CAW
- 1, Feb. 1, Calgary - CAW, CRW
Sa - 1, March 26, Calgary - RIP
Sc - 1, May 14, Indus - HAB, BIL, VGL, VGM
- 1, May 14, Calgary - HAV
Eb - 1 pair, May 31 to June 16, Dry Island Buffalo Jump P.P. - WWS

- 1, July 4, Elkwater - WWS
- 1 pair, July 26-27, Huxley - WWS

Fa - 2, Aug. 27, Calgary - WWS
Fc - 1, Nov. 4, Joseph Lake - LOG
1973. Sa - 2, March 24, Millarville - BIL, VGL, SCO
Sc - 1, April 7, Calgary - IRH
Eb - 1, June 2 & 23, Talbot - GWG, LOG

- 1, June 9, Big Stone - GWG, LOG
- 1, June 12, Winagami Lake P.P. - WWS

Fa - 1, Aug. 24, Calgary - WWS
Fc - 1, Oct. 21, Lindbrook - GWG, LOG
1974. Sa - 1, March 30, Conrich - RUB
S - 3, April 29, Onefour - WWS
Sc - 2, May 19, Chauvin - GWG, LOG
Eb - 1, May 26, Buffalo - CAW

- nest, early June, west end of Cypress Hills - CRW
- nest with 5 young, July 1, Vermilion P.P. - Peters & Ovenden (1974)

Fa - 1, Sept. 4, Calgary - HWP
Fc - 1, Sept. 29, Stettler - GRG, PAG
Ew - 1, Dec. 9, Highridge - BIL, RIP
1975. Sc/Eb - 1, May 28, Cold Lake - GRG, MAH
Eb - 1, June 10, Medicine Lodge Coulee (Cypress Hills) - WWS

- 1, June 16, Rumsey - Bradley & Bradley (1977a)

B - 1 adult at nest with 3 eggs, June 13, Big Hill Springs P.P. - HWP

- 2, June 23-24, Elkwater - WWS
- 1, June 25, Spruce Coulee Reservoir - WWS

Fa - 1, Sept. 9, Calgary - HWP
Ew - 1, Dec. 19, Calgary - HWP
1976. Sa - 1, April 3, Black Diamond - JIM
Em - 1, May 8, Ft. McMurray - Gulley (1983a)
Eb - 1, May 27, Ribstone Creek northeast of Czar - Bradley & Bradley (1977c)
B - 1 pair at nest, July, Kerkeslin Creek, Jasper N.P. - Holroyd & Van Tighem (1983)
Fa - 1, Aug. 27, Calgary - AJF
Fc - 1, Oct. 10, Calgary - GES
1977. Sa - 1 adult, March 27, New Norway - GRG, PAG
Sc - 1, May 7, Beynon - HWP, JOR
B - 1 female & 3 young, July 15, De Winton - HWP
Fa - 2, Aug. 21, Calgary - JMP
Fc - 2, Sept. 29, Carmangay - HWP, JOR

- 1, Sept. 29, Sage Creek - WWS, CAW
- Oct. 1, Cascade Fire Road, Banff N.P. - Holroyd & Van Tighem (1983)

Ew - 2, Dec. 17, Banff - Christmas Bird Count
1978. Ew - 1, Jan. 7, Edmonton - CHH
Fa - 1, Aug. 21, Calgary - WIH
Ew - 1, Dec. 30, Water Valley - Christmas Bird Count
1979. Ew - 1, Jan. 11, Grimshaw - JAF
Sc - 1, April 23, Calgary - WWS
B - 2 adults with 4 young in nest, July 10, Bottrel - JMP
Fa - 1, Sept. 2, Brooks - RUB
Fa/Fb - 5, Sept. 2, Sunwapta Valley, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 1, Oct. 9, Calgary - BAD
Ew - 1, Dec. 23, Wabamun Lake - Christmas Bird Count

1980. Sc - 1, May 18, Chestermere Lake - ANS
Fa - 1, Aug. 30, Calgary - AJF
Em - 1, Sept. 4 & 7, Ft. McMurray - Gulley (1983a)
Fc - 1, Sept. 19, Calgary - AJF
Ew - 1, Dec. 21, Calgary - Christmas Bird Count

Northern Goshawk *(Accipiter gentilis)*

Salt & Salt (1976) state that this species is resident throughout its range and wanders in winter. Our records indicate that the majority of Northern Goshawks are migratory with only a few spending the winter, both in nesting and non-nesting areas. There are definite migratory movements in Alberta in March/April and September/October.

In the mountains, Northern Goshawks are rare nesters (Holroyd & Van Tighem 1983; Sharp 1973). There are extralimital breeding records from the Cypress Hills.

1971. Eb - 1, June 3, Willow Creek (Cypress Hills) - WWS
- 1, late June - Willow Creek (Cypress Hills) - CRW
- 2 immatures, Aug. 12, Beaver Creek (Cypress Hills) - WWS
- 1, Aug. 13, Battle Creek (Cypress Hills) - WWS
F - 1, Nov. 13, Beynon - MAB
1972. Sb - 7, March 4, Edmonton - REG, MIH, (Houston 1972b)
Eb - 2, May 14, Shepard - RAO
- 1, Aug. 5, Spruce Coulee Reservoir - HWP
Fa - 1 immature, Aug. 24, Calgary - WWS
F - 13 banded, Sept. 11 to Oct. 11, Edmonton - REG (Houston 1973a)
- 1, Oct. 15, Lethbridge - WWS, CAW, CRW, RAW
- 1, Oct. 19, Milo - EWB
- highlight of the fall was the tremendous movement of Northern Goshawks into and through the Edmonton district - Rees (1973)
W - 5, Dec. 17, Edmonton - Christmas Bird Count
1973. Sa - 2, March 4, Beynon - MAB
F - 1, Sept. 26 & Oct. 1, Milo - EWB
1975. Eb - 1 immature, June 5, Elkwater - WWS
1976. Fb - 5, Nov.17, Ministik Lake - LUB
1979. W - 4, Dec. 16, Calgary - Christmas Bird Count

Broad-winged Hawk *(Buteo platypterus)*

This species arrives in Alberta in late April and early May. Unfortunately, there are not many records for the spring, especially in east-central Alberta which appears to be the center of their Alberta range.

The status of Broad-winged Hawks in Alberta is unclear in many areas. There are some intriguing observations during the summer in suitable habitat. Broad-winged Hawks apparently nested in the Cypress Hills for the first time in 1971. There also appears to be a small breeding population in the Ft. MacKay area (Francis & Lumbis 1979). In North America, the rare dark phase apparently nests only in Alberta (Clark & Wheeler 1987).

Fall migration in southern Alberta occurs from mid-August to the third week of September. Note the unusual November records for 1974 and 1978.

1971. Eb - 1, May 18, Reesor Lake - WWS

- 1 pair, probably nesting, mid-June, Reesor Lake - WWS, CRW
1972. Eb - 1, May 16-31, Dry Island Buffalo Jump P.P. - WWS
Fa - 1, Aug. 13, Wintering Hills - WWS (Kondla et al. 1973)
Fc - 1, Sept. 28, Calgary - CAW, CRW
1973. Sa - 1, May 5, Calgary - GRW
Fc - 1, Oct. 1, Hinton - BEB, GEB
1974. Eb - 4, May 19, Elkwater - LIM, DVW
- 1 pair circling & screaming, June 3, Bergen - Tull (1975)
- adults seen during the summer, and 1 immature on Aug. 13, Ruth Lake - Sharp et al. (1975)
Fc - 1, Nov. 12, Valleyview - BIK
1975. Sa - 1, April 16, Grimshaw - JAF
Eb - 1 pair (1 dark phase), May 16, Elkwater - WWS
- 1, June 23, Elkwater - WWS
Em - 1, Aug. 26, Ruth Lake - Sharp & Richardson (1976)
- 1, Sept. 1, Ft. Chipewyan - JOK
- 1, Sept. 13, Ruth Lake - Sharp & Richardson (1976)
- 1, Sept. 15, Horseshoe Lake (Ft. McMurray) - Sharp & Richardson (1976)
1976. Eb - 1, June 15, Gregoire Lake - WWS
- 1 immature, Aug. 4, Elkwater - CRW
- 2, Aug. 11, Gregoire Lake - WWS
Fa - 1, Sept. 4, Calgary - HWP
Fc - 1 dark phase, Oct. 31, Travers Reservoir - RUB
1977. Sa - 1, May 4, Lindbrook - KWT
Eb - 1, May 23, Police Coulee, Writing-on-Stone P.P. - CRW
- often seen and probably breeding in Ft. MacKay area - Francis & Lumbis (1979)
- 1, June 28, upper Spray River, Banff N.P. - Holroyd & Van Tighem (1983)
Em - 1, Aug. 29, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
1978. Sa - 1, May 1, Lindbrook - KWT
Em - 1, May 8, Thickwood Hills - BRW
Eb - 1, May 20 & June 3, Lee Creek - CAW, CRW
Fa - 1, Aug. 29, Calgary - ADS, DOS
Fc - 1, Sept. 20, Vulcan - HWP, JOR
- 1, Nov. 9, Waterton Lakes N.P. - SIL
1979. Sa - 1, May 4, Grande Prairie - ELC, GEC
- 1, May 7, Ensign - JOR
Sc - 1, May 20, Bottrel - SFJ, JMP
Fa - 1 immature, Sept. 9, Bottrel - SFJ
Fc - 1, Oct. 6, Calgary - DUC
1980. Sa - 1, May 6, Calgary - DAE, JOR
Sc - 1, May 28, Calgary - DAE
B - nest with 3 young about 10 days old, July 8, northeast of Ft. Saskatchewan in jack pine *(Pinus banksiana)* in sandhills - ETJ
Fa - 1, Sept. 5, Crooked Creek, Waterton Lakes N.P. - TEH
F - 1, Sept. 12, Patricia - PMA specimen
Fc - 1, Sept. 19, Carseland - HWP

Swainson's Hawk *(Buteo swainsoni)*

The first spring migrants arrive from late March to mid-April. This is earlier than indicated by Sadler & Myres (1976) or Salt & Salt (1976). It is interesting to note that in four of the ten years the first spring migrant was a dark phase bird. It is the authors' opinion that darker birds have been more frequently recorded in this decade, a trend that is apparently continuing into the 1980's.

This species is a rare summer visitor in Banff and Jasper National Parks (Holroyd & Van Tighem 1983). In recent years there are no summer records for Waterton Lakes National Park (Sharp 1973). Salt & Salt (1976), however, state that Swainson's Hawks nest in Waterton Lakes National Park. A number of observations for the Grande Prairie area during this decade indicate nesting there.

Most birds leave by mid-September with stragglers lingering until mid-October. This is considerably later than the dates reported by Sadler & Myres (1976) and Salt & Salt (1976). A large communal evening roost reported on the outskirts of Calgary in 1978 is apparently the first documented for Alberta.

The winter record for Wembley is the first for Alberta. This is interesting in light of an increase in winter records in North America.

See page 90 for a report of a probable hybrid between this species and Red-tailed Hawk.

1971. Sa - 1 dark phase, March 21, Bragg Creek - RFC
Fb - 20, Sept. 12, Coronation - ISS, DVW
Fc - 1, Sept. 19, Cochrane - CDB, HWP, CRW
- 1, Sept. 19, Longview - CFNS

1972. Sa - 1, March 22, Milo - WWS
Fb - 50, Sept. 11, Rockyford - JEC, JOC
Fc - 1 dark phase, Oct. 20, Calgary - HWP, CAR

1973. Sa - 1, March 30, Lethbridge - HES
- 1, March 31, Gadsby - GRG, PAG
Em - 1, Aug. 4, Plateau Mountain - SCO
Fc - 1, Sept. 30, Cochrane - SCO
- 1, Sept. 30, Irricana - WWS

1974. Sa - 2, April 2, Rockyford - JOC
Fc - 1, Oct. 9, Edmonton - JIW

1975. Sa - 1 dark phase, April 18, Cheadle - HWP, CAR
- 1, April 20, Edmonton - RIP
Eb - 1, May 29, Syncrude lease - Sharp & Richardson (1976)
- 1, May 30, Vermilion Lakes, Banff N.P. - Karasiuk (1976a)
Fc - 1, Oct. 9, Milo - RUB

1976. Sa - 3, April 3, Black Diamond - JIM
- 1, April 4, Spruce Grove - SUG
Eb - 1, June, Ft. MacKay area - Francis & Lumbis (1979)
Fc - 1, Sept. 19, Springbank - DPD
Ew - 1, Dec. 19, Wembley - Christmas Bird Count

1977. Sa - 1 dark phase, March 27, Bruce Lake - JIM
Eb - 1, June 3 & 18, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, June 20, Sexsmith - GEY, JOY
Fb - 13, Aug. 27, Irricana - RUB
Fc - 1, Oct. 12, Cochrane - AJF
- 1 adult & 1 immature, Oct. 28, Grande Prairie - YVM (These birds were observed in the same general area since Sept. 9. Note was made that the immature was flying more strongly at later dates.)

1978. Sa - 1 dark phase, April 7, Cremona - HWP
Eb - 1, June 13, Miette River, Jasper N.P. - Holroyd & Van Tighem (1983)

- 1, June 23, Big Hill, Jasper N.P. - Holroyd & Van Tighem (1983)
B - 23, July 29, Calgary - WIH
- 43, July 30, Calgary - WIH (resting in poplars in one area at 9:50 p.m.)
Fc - 1, Sept. 26, Beaverlodge - GEC
- 1, Sept. 30, Shepard - PEB, CMM
- 1, Sept. 30, Delacour - JMP
- 2, Nov. 9, Waterton Lakes N.P. - SIL

1979. Sa - 2, March 25, Millarville - DPD
Em - 1, May 8, Mistaya Valley, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - 1, May 26, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 30, Sept. 2, Calgary - CLH
Fc - 12, Sept. 15, Cardston - RUB

1980. Sa - 1, April 13, Calgary to Rosebud - ANS
Fc - 2, Sept. 26, Calgary - AAM

Red-tailed Hawk *(Buteo jamaicensis)*

This species begins to arrive in southern Alberta in late March and peaks in mid-April.

In summer, Red-tailed Hawks are uncommon in Waterton Lakes National Park (Sharp 1973) and Banff and Jasper National Parks (Holroyd & Van Tighem 1983). In the northeastern corner of the province this species is a rare breeder (Höhn 1972a; Francis & Lumbis 1979). It does not appear to nest along the lower South Saskatchewan River, lower Red Deer River, and lower Milk River (Wallis 1976 & 1977). Except for the Cypress Hills and some cultivated and irrigated areas, it is largely absent from the southeast corner of the province. Pinel & Wallis (1972) report an unusual nest with a large clutch found on a cliff near Drumheller in 1971. There are two interesting late spring/summer records of the subspecies *harlani* (Harlan's Hawk) in southern Alberta in 1980. For a detailed discussion of Red-tailed Hawks and Snowshoe Hares in the Rochester area see Adamcik et al. (1979).

The last fall migrants have usually left by the end of October. Sadler & Myres (1976) report two records for the 1960's in November as winter records. These are not winter records, but only late fall migrants. Sadler & Myres (1976) and data for this decade suggest that there may be a small passage of the subspecies Harlan's Hawk in October. Fieldwork in the foothills west of Calgary during the 1980's by the authors indicates a significant southward migration of Harlan's Hawks.

The first winter records for Alberta occurred during the decade.

A probable hybrid between this species and Swainson's Hawk is reported on page 90.

1971. Sa - 1 pair, April 4, Big Hill Springs P.P. - WWS
Sb - 55 (5 dark), April 10, Dorothy - McKay (1971)
B - nest with 4 downy young & 1 egg, June 5, 10 km south of Drumheller; nest unusual because of large clutch size and because it was on a cliff - Pinel & Wallis (1972)
Fb - 30, Aug. 31, Calgary - RIP, DAS
Fc - 1, Oct. 30, Turner Valley - CDB

1972. Sa - 1, March 20, Beynon - MAB
Fb - 14, Oct. 1, Gladys - FAN

Fc - 1, Nov. 14, Blackfalds - MAM
1973. Sa - 1, March 23, Beynon - MAB
- 1, March 25, Looma - JIW
- 1, March 25, Tofield - LUB
Fb - 16, Sept. 9, Tofield - GWG, LOG
Fc - 1, Oct. 20, Tofield - DID
1974. Sa - 1, March 24, Calgary - KEC
Sb - 20, April 12, Tofield - GWG, LOG, TWT
Fb - 32, Sept. 20, Leduc - RIP
Fc - 1, Oct. 2, Edmonton - MAM
1975. Sa - 1, March 29, Turner Valley - SEA, JOD
Fc - 1, Nov. 23, Waterton Lakes N.P. - JUL
1976. Sa - 1, March 29, Cheadle - TSS
- 1, April 3, Vegreville - ERB
Fc - Oct. 4, Ft. McMurray - Gulley (1979)
- 1, Oct. 27, Aldersyde - KSC, JOD
Ew - 1, Dec. 18, Wabamun Lake - Christmas Bird Count
1977. Sa - 1, March 26, Calgary - JIM
- 1, March 26, Edmonton - LAC
Fc - 3, Oct. 23, Calgary - KAM
- 1, Oct. 23, Dogpound - RUB
1978. Sa - 4, March 31, Nanton to Longview - HWP, JOR
- 1, March 31, Ghost Reservoir - DUC
Fc - 1 (Harlan's), Nov. 5, McGregor Lake - RUB
- 1, Nov. 11, Pincher Creek - WWS
Ew - 1, Dec. 17, Ft. McMurray - Christmas Bird Count
1979. Sa - 1, March 3, Morley - JMP
1980. Sa - 2, March 31, Calgary - OLD
B - 1 pair (Harlan's), May 14 to July 2, Pincher Creek - WWS
- 1 (Harlan's), May 31, Cypress Hills - WWS, CAW, CRW
Ew - 1, Dec. 16, Calgary - HWP
- 1, Dec. 20, Banff N.P. - Christmas Bird Count
- 1, Dec. 21, Edmonton - Christmas Bird Count
- 1, Dec. 27, Lethbridge - Christmas Bird Count

[Red-tailed Hawk x Swainson's Hawk]

The photographs of the hybrid reported below exhibit characteristics of each species. The head, bill, underside of body, underside of wings and shape of wings all indicate a Swainson's Hawk. The reddish upper tail and mottled white scapulars contrasting with the dark mantle indicate a Red-tailed Hawk. It is of interest to note that there is no hint of a belly band or dark patagial stripe of a Red-tailed Hawk. If this identification is correct, it would be the first known *Buteo* hybrid from North America that the authors are aware of. The photographs are in the possession of the observers.

1977. - 1 found dead (and photographs taken), May 1, north of Elnora - CAW, CRW

Ferruginous Hawk *(Buteo regalis)*

This species usually arrives from late March to early April.

Ferruginous Hawks no longer occur in parts of their former nesting range along the river valleys of southeastern Alberta (Smith 1975; Wallis 1976; Kondla 1978). These population declines appear to be related to similar population declines of the Richardson's ground squirrel *(Spermophilus richardsonii)*, the chief prey item of this species. Traditional nesting on cliffs has dramatically decreased, with a subsequent increase in tree nesting in upland areas. There are interesting nest records in flat grasslands near Tilley in 1972 and 1979.

Moore (1987) summarizes much of the known population data for Alberta. In 1976 and 1977, there were 48 and 49 nests respectively in a 480 sq. km area near Hanna. In 1975, 98 nest poles were erected. Despite the presence of the poles, the overall Ferruginous Hawk population in the 500 sq. km area remained stable, although 23% now nest on artificial structures. Schmutz & Schmutz (1980) studied this species in the Hanna area. They estimated a Canadian population of 500 to 1,000 pairs. Holroyd & Van Tighem (1983) record an interesting historical record from Jasper National Park: "may formerly have nested...2 agitated adults on 9 July 1944, five miles east of Brazeau Lake." Schmutz and Fyfe (1987) analyzed the data of 2,444 Ferruginous Hawks banded in Alberta. The majority of Alberta birds winter in Texas and their distribution there is related to prairie dog (*Cynomys* spp.) colonies.

There was a noteworthy observation of 27 adults in one small field on June 2, 1973. This is unusual because of date, location, numbers and sociability.

Little is known about the fall migration of Ferruginous Hawks in Alberta, but the main population appears to leave the province by early September. Some stragglers remain until late October.

There are no known winter records for the decade, but there is a previously unreported observation of a single bird on December 18, 1965 near Wrentham by WWS.

1971. Sa - 1, April 2, Beynon - MAB
B - 119 cliff nests found throughout badlands at Dinosaur P.P., but only 2 breeding pairs confirmed; maybe related to low ground squirrel populations - Kondla (1978)
F - 1, Sept. 18, East Coulee - NGK, RAO
1972. Sa - 5, March 23, Beynon to Sharples - HWP, CAW
B - 3 young in nest in flat grasslands, June 14, northeast of Tilley - CAW, CRW
- 3/4 grown young in ground nest in flat grasslands, June 24, 11 km north of Tilley - ETJ
Eb - 1, Aug. 11, Rowe Basin, Waterton Lakes N.P. - Sharp (1973)
Fc - 1, Oct. 15, Manyberries - WWS, CAW, CRW, RAW
1973. Sa - 1, March 13, Beynon - MAB
E - 1, April 28, Beaverhill Lake - DID
Eb - 1, June 2, Beaverhill Lake - GWG, LOG
B - 27 adults (1 dark), June 2, Calgary - BIL, VGL, WWS, HAV - in one field along with 4 Swainson's Hawks, 3 Northern Harriers and 3 Short-eared Owls.
Eb - 1, July 7-17, Gooseberry Lake - Ebel et al. (1973b)
Fb - 6 (1 dark), Sept. 27, Milo - WWS
1974. Sa - 1, April 1, Beynon - MAB
E - 1, April 27 to May 5, Beaverhill Lake - LOG
Eb - 1 adult, May 14, Waterton Lakes N.P. - JIB
- 1, May 17, North Saskatchewan River Crossing, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, May 23, Elk Island N.P. - Burns et al. (1986)
- 1, May 25 & 26, Tofield - DID, GWG, LOG, JIW

B - nest with 3 eggs, May 6, Pinhorn Grazing Reserve - WWS; only occupied cliff eyrie in 700 sq. km study area. Numerous old & deserted cliff eyries found, e.g. 40+ in about 5 km of one large coulee. Decline possibly related to decline in ground squirrel populations - Smith (1975), Wallis (1976)
1975. E - 1, May 3, Tofield - JIW
B - 1 pair at nest, June 11, south slope of Cypress Hills - WWS, CRW
1976. Sa - 1, April 4, Rosebud - HWP
Em - 1, Sept., Neutral Hills - Bradley & Bradley (1977b)
Fc - 1 dark phase, Oct. 11, Dalemead - HWP
1977. Sa - 1, April 10, Cochrane - JMP
B - 4 young in nest (banded), June 25, Indus - HWP
Fc - 3, Oct. 16, Pollockville - HWP, JOR
1978. Sa - 1, April 16, Shepard - JOD, JMP
Fc - 1, Oct. 12, Calgary - ELH
1979. Sa - 1, April 13, Namaka Lake - WWS
B - nest with 5 eggs, April 28, 48 km west of Medicine Hat (on flat ground 90 m from highway) - BRK
Em - 1, Sept. 12, Minburn - RIK
Fb/Fc - 7, Oct. 23, Pollockville - HWP
1980. Sa - 1, April 19, Cochrane - JMP
B - 63 nesting pairs with 122 chicks, Hanna area - Moore & Patterson (1980)

Rough-legged Hawk *(Buteo lagopus)*

The first spring migrants arrive from early to mid-March. The peak occurs from the end of March to mid-April. Some birds linger late into May with three records in June for central and southern Alberta. Sharp (1973) reports an unusual summer observation (1 bird on July 19, 1967) for Waterton Lakes National Park which was omitted by Sadler & Myres (1976).

Fall migration usually begins in mid-September. In 1974 unusually early fall migrants were noted. The last migrants leave Alberta by mid-November. The peak of fall migration extends from mid to late October.

There are winter records for every year except the winters of 1970/1971 and 1977/1978, with most being from southern Alberta.

1971. Sa - 1, March 22, Airdie - WWS
Sc - 1, May 2, Calgary - HAV
Eb - 1, June 8, Cold Lake - GEK, COS
Fa - 1, Sept. 18, De Winton - VGL
Fb - 10, Oct. 31, Water Valley - HAV
Fc - 1, Dec. 8, Calgary - WWS
W - 1, Dec. 19, Edmonton - Christmas Bird Count
1972. Sa - 1, March 10, Calgary - WWS
Sb - 42, March 29, Langdon - VGL
Sc - 1, May 23, Wardlow - HES, RYS
Fa - 1, Sept. 3, Milo - ELP
Fb - 11, Oct. 14, Calgary - CAP, DOP
Fc - 1, Nov. 14, Red Deer - MAM, PAM
- 1, Nov. 14, Edmonton - MAM, PAM
1973. W - 1, Jan. 13, Leduc - ACB, ELB
Sa - 1, March 4, Carseland - RIP, PES
Sb - 21, April 4, Cochrane to Crossfield - HWP, CAR
Sc - 1, May 21, Millarville - DPD

Fa - 1, Aug. 18, Mundare - LOG
Fb - 21, Oct. 16, Black Diamond - MRL, RWN
Fc - 1, Nov. 11, Edmonton - DID
- 1, Nov. 14, Calgary - BAD
1974. Sa - 1, March 16, Calgary - BOF
Sc - 1, June 2, Tofield - BOL
Fa - 3, Aug. 25, Springbank - DRD, SAD
- 1, Aug. 26, Edmonton - GWG
W - 1, Dec. 8, Barrhead - REG
- 10, Dec. 14, Edmonton area - TSS
- 1, Dec. 17 & 29, Edson - BOF
1975. Sa - 1, March 15, Aldersyde - GRW
Sb - 15, April 21, Nisku airport - JIW
Sc - 1, May 13, Coutts - WWS
Eb - 1, July 3, Syncrude lease - Ward et al. (1976)
Fa - 1, Oct. 1, Syncrude lease - Ward et al. (1976)
- 2, Oct. 5, Botha - GRG
Fc - 1, Nov. 23, Turner Valley - VAH, MRL
1976. W - 1, Jan. 7, Waterton Lakes N.P. - KEB
Sa - March 14, Ft. MacKay - Francis & Lumbis (1979)
- 1, March 19, Aldersyde - HWP
Sb - 34, April 4, Hussar - HWP
Sc - 1, May 10, Pincher Creek - WWS
Fa - 2, Aug. 26, Ft. Chipewyan - JOK
F - Sept. 24 to Nov. 13, Ft. MacKay area - Francis & Lumbis (1979)
Fa - 1, Sept. 25, Galahad - KAS
Fb - 15, Nov. 7, Calgary to McGregor Lake - JIM
Fc - 2, Nov. 15, Okotoks to Pekisko - HWP
W - 1, Dec. 16, Leduc - WWS
- 1, Dec. 18, Killam - KAS
- 2, Dec. 19, Edmonton - Christmas Bird Count
- 1, Dec. 26, Botha - GRG
1977. W - 2, Feb. 7, Donnelly - RIP
Sa - 1, March 5, Cayley - GRW
Sc - 1, May 29, Grande Prairie - Wiseley (1979b)
Fa - 1, Sept. 20, Ft. MacKay - WWS
- 1, Sept. 21, Brant - HWP, JOR
1978. Sa - 1, March 1, Calgary - AJF
Sc - 1, May 18, Parkland - JOR
- 2, May 27, Ft. McMurray - Wiseley (1979b)
- 2, May 28, Lethbridge - Wiseley (1979b)
Fa - 2, Sept. 14, Indus - HWP
Fb - 15, Nov. 9, Waterton Lakes N.P. - SIL
- 18, Nov. 24, Pincher Creek - WWS
Fc - 1, Dec. 3, Big Hill Springs P.P. - DUC
W - 7, Dec. 26, Lethbridge - Christmas Bird Count
1979. W - 1, Jan. 1, Athabasca River Valley, Jasper N.P. - Holroyd & Van Tighem (1983)
Sa - 2, March 3, Calgary - BSD
Sb - 54, April 13, Namaka - WWS
Sc - 2, May 12, Delacour - RUB
Eb - 1, June 17, Clearwater River, Banff N.P. - Holroyd & Van Tighem (1983)
Fa - 1, Sept. 17, Grande Prairie - ELC, GEC
Fb - 15, Oct. 23, Pollockville - HWP
Fc - 1, Nov. 15, Bottrel - JMP
- 1, Nov. 16, Grande Prairie - ELC, LRN
W - 2, Dec. 16, Edmonton - Christmas Bird Count

1980. Ew - 1, Jan. 5, Wembley - ELC, GEC
Sa - 2, March 31, Cheadle - TSS
Sb - 30, April 13, Calgary to Rockyford - CFNS
Sc - 3, May 24/25, Ft. McMurray - Wiseley (1981)
Fa - 1, Oct. 5, Beaverhill Lake - PTS, TWT
- 1, Oct. 12, Calgary - ANS
Fb - 12, Oct. 19, Whitford Lake Field Trip - ENHC
- 8, Oct. 25, Shepard to Langdon - HWP
- 11, Nov. 30, Egg Lake - DVC, SYL
Fc/Ew - 1, Dec. 2, Wandering River - Gulley (1983b)
W - 1, Dec. 13, Vimy - JIL
- 1, Dec. 20, Banff - Christmas Bird Count

Golden Eagle *(Aquila chrysaetos)*

For the 1970's, data is inconclusive for migration because of the fact that some birds winter in southern Alberta. However, there is a definite movement in late March. Paul (1976a & b) gives an interesting account of passage in the Cadomin area. Dekker (1984b) observed Golden Eagles at Beaverhill Lake from 1964 to 1983. He observed only 32 birds: 18 in spring (March 29 to May 26) and 14 in fall (September 20 to November 12).

The Golden Eagle is uncommon in the mountains and very localized in the lower reaches of southern Alberta rivers. In addition, this species is extremely scarce and localized in the northern half of the province. Francis & Lumbis (1979) were aware of only one active nest in their 28,000 sq. km study area. This nest was in the Canadian Shield north of Lake Athabasca. Golden Eagle distribution, in part, may stem from the fact that they appear to require suitable cliffs in remote areas. The only tree nest for Alberta that the authors are aware of was found at Pakowki Lake in 1976.

In the fall there appears to be a migration peak from mid to late October.

Winter records are few, and restricted to southern Alberta. It is the authors' opinion that Golden Eagles are more widespread in southern Alberta during this season than the data indicates.

1971. Sb - 3, April 6, Beynon - HWP, CAR
B - 3 active nests, Dinosaur P.P. - Kondla (1977b)
Eb - 1 pair at nest, July 3, Milk River Canyon - WWS
1972. Fb - 7, Oct. 27, Medicine Hat to Elkwater - JOC
1973. Ew - 1, Feb. 4, Lindbrook - DID
Sb - 3 immatures, March 18, Carseland - JIM, HWP
Fb - 4, Oct. 20, Dalemead - ROM
1974. Ew - 1, Jan. 4, Edmonton - JCP
Sb - 12, March 30 & 31, Cochrane - DID
Eb - 4 occupied nests with 7 young in total, May 6 to June 30, Pinhorn Grazing Reserve to Milk River Canyon - WWS, CAW, CRW (Smith 1975)
Fb - 9, Oct. 12, Cascade Fire Road, Banff N.P. - Holroyd & Van Tighem (1983)
1975. Sb - 50 adults, March 29, Bow River near Calgary - DID
Eb - 1, May 4, Miquelon Lake - EBC
- 4 nests (2 of which produced 1 young each), July, Canadian Shield near Lake Athabasca - Bishoff & Fyfe (1976)
Ew - 1 immature, Dec. 15, Dapp - REG, ARS
W - 5, Dec. 26, Lethbridge - Christmas Bird Count

1976. W - 1 adult, Jan. 20, Hilda - ROB
Sb - 121, March 22, Cadomin - Paul (1976a & b); the day before only 2 were observed and for 3 days after only 5 were seen.
- 13, March 28, Kathyrn - BOF, GAF
B - 1 pair with nest in cottonwood *(Populus deltoides)* containing 2 eggs, May 8, Pakowki Lake - WWS, CAW, CRW. On July 1 there were 2 large young close to flight and the remains of 2 mule deer *(Odocoileus hemionus)* fawns in the nest.
B - only 1 active nest in the Canadian Shield north of Lake Athabasca in the 28,000 sq. km AOSERP study area - Francis & Lumbis (1979)
1977. Sb - 9, April 10, Cochrane - JMP
W - 1, Dec. 26, Waterton Lakes N.P. - Christmas Bird Count
1978. Ew - 1 adult, Feb. 14, Minburn - RIK
W - 5, Dec. 26, Lethbridge - Christmas Bird Count
1979. Ew - 2, Jan. 19, Grande Prairie - GEC
W - 5, Dec. 26, Lethbridge - Christmas Bird Count
- 2, Dec. 30, Waterton Lakes N.P. - Christmas Bird Count
1980. W - 5, Dec. 27, Lethbridge - Christmas Bird Count

FAMILY: FALCONIDAE

American Kestrel *(Falco sparverius)*

This species usually arrives in southern Alberta during the last half of March. Holroyd & Van Tighem (1983) list the earliest date for Banff and Jasper National Parks as April 22. Francis & Lumbis (1979) state that the arrival date for the Ft. MacKay area is April 13.

Fall migration begins in late August with most birds having left the province by the end of September. Some stragglers remain into November. There are winter records for every year except 1979, from seven areas in southern Alberta.

Rees (1973) reports two interesting records: (1) an adult banded near Edmonton on April 23, 1967 was re-trapped in the same area on July 15, 1971; (2) an adult banded at Ft. Saskatchewan on July 24, 1970 was recovered at Munroe, Michigan on October 22, 1971.

1971. Ew - 1 male, Jan. 22, Calgary - JOP
Sa - 1 female, March 21, Calgary - WIH
B - 1, July 15, south of Edmonton - trapped & released; originally banded as an adult on April 23, 1967 in the same area, therefore at least 5 years old - Rees (1973)
Fc - 1 male, Nov. 11, Langdon - BIL, VGL
1972. Sa - 3, March 25, Horseshoe Canyon to Rosedale - CDB
B - 1 pair & young, July 14, Dry Island Buffalo Jump P.P. - WWS; nest was in a cliff eyrie.
Fc - 1 male, Nov. 26, Indus - WIH
Ew - 1, Dec. 21, Cochrane - DVW
1973. Ew - 1 male, Jan. 20, Calgary - BAD, BOD
Sa - 1 male, Feb. 25, Calgary - HWP, CAR (seen again on March 1 & 12)
Fc - 1, Nov. 2, Edmonton - DEG
1974. Ew - 1 male, Feb. 10, Calgary - CAR
Sa - 1 male, March 11, Calgary - HWP, CAR
Fc - 1, Nov. 13, Busby - VGL
1975. Ew - 1 male, Feb. 19, Calgary - BIL, HWP

Sa - 1 male, March 28, Calgary - CAR
- 1, April 3, Edmonton - NOW
B - 1 male, feeding on a frog, June 30, Rycroft - EVC, JLC
Fc - 1 male, Nov. 16, Calgary - SAD
1976. Sa - 1 male, March 28, High River - EIC, KIC
B - at least 2 pairs nesting in cliffs, summer, Writing-on-Stone P.P. - CRW
- numerous eyries in cliffs throughout the Milk River Canyon, summer - Wallis (1976)
Fc - 1, Nov. 1, Namaka Lake - RUB
Ew - 1, Dec. 26, Edmonton - AAJ, SAJ
1977. Ew - 1, Feb. 23, Devon - JAK
Sa - 1, March 13, Millarville - JIM
Fc - Oct. 6, Ft. McMurray - Gulley (1979)
- 1 adult male, Oct. 12, Cochrane - AJF
Ew - 1, Dec. 18, Edmonton - Christmas Bird Count
- 1, Dec. 18, Stettler - Christmas Bird Count
1978. Ew - 1, Feb. 23, Grande Prairie - GUH, KUH
Sa - 1, March 24, Turner Valley - CRW, RAW
- April 4, Ft. McMurray - Gulley (1979)
Sb - 12 males, April 16, Indus to Shepard - JOD, JMP
Fc - 1 immature male, Nov. 11, Pincher Creek - WWS
Ew - 3, Dec. 26, Lethbridge - Christmas Bird Count
1979. Sa - 1 male, March 21, Calgary - HWP
Sb - 13, April 23, Namaka Lake - WWS
Fb/Fc - 7, Sept. 2, Arrowwood - RUB
1980. Sa - 2, March 26, Balzac - CAO
Fc - 1 male, Oct. 1, Calgary - OLD
Ew - 1, Dec. 27, Lethbridge - Christmas Bird Count
- 1, late Dec., Stettler - Christmas Bird Count

Merlin *(Falco columbarius)*

There are no definite nesting records for the mountain National Parks (Sharp 1973; Holroyd & Van Tighem 1983). Francis & Lumbis (1979) indicate one possible pair in their entire Ft. MacKay study area.

Fyfe et al. (1976a) studied the effects of five chemical pollutants on 128 nests between 1969 and 1973. Effects associated with higher levels of contamination were lowered productivity and less aggressive territory defense. This resulted in fewer young produced. Hodson (1978) studied prey utilization by Merlins during the nesting season from 1969 to 1974. He found that Merlins hunted mainly over grazed grasslands. Horned Larks and Chestnut-collared Longspurs formed 87% of prey taken. It was also noted that after a heavy hatch of grasshoppers, these insects were consumed in quantity. Henny et al. (1976) discuss a migrant male Merlin that died of chemical contaminants. This bird was found on October 24, 1974 near Portales, New Mexico. It had been banded as an adult on June 25, 1970 near Hanna.

Smith (1978) discusses the status of Merlins in Edmonton.

Merlins regularly winter in urban areas in southern Alberta. There are no winter observations from Banff or Jasper National Parks (Holroyd & Van Tighem 1983). Sharp (1973) records only one winter record for Waterton Lakes National Park.

1971. W - 1, Feb. 16, Waterton Lakes N.P. - Sharp (1973)

Sa - 1 male, March 15, Beynon - MAB
1972. Sa - 1 male, March 10, Beynon - MAB
Mp - 1 male, Aug. 12, Plateau Mountain - CFNS
B - 1, Aug. 16, Edmonton - Dekker (1972a); bird was observed catching and feeding on a little brown bat *(Myotis lucifugus)*.
1973. Sa - 1 male, March 2, Beynon - MAB
W - 1, Dec. 4, Rockyford - JOC
1974. W - 1, Feb. 14, Rockyford - LIM, DVW
- 1, Dec. 1, Nightingale - JIM
- 1, Dec. 8, Cochrane - RUB
- 1, Dec. 18, Cheadle - TSS
1975. W - 1 female, Feb. 3, Barrhead - BIL
Sa - 1 female, March 12, Calgary - HWP
B - approximately 1 bird every 1.6 km along the Red Deer River from Steveville to Jenner - Kondla (1977b)
W - 1, Dec. 6, Baintree - JIM
- 1 female, Dec. 29, Shepard - HWP
1976. W - 1, Jan. 4, Galahad - KAS
Sa - 1, March 14, Cochrane - DBG, EMG, WGG
B - 2 nests, summer, Gregoire Lake - Gregg et al. (1976)
Mp - 1, July 20, Kananaskis P.P. - DNB (Wiseley 1979a)
1977. W - 1, Jan. 13, Beaverlodge - MCL
- 1, Jan. 23, Cochrane - ADS, DOS, PHS
- 1, Jan. 31, Galahad - KAS
- 1, Feb. 12, Aldersyde - GRW
1978. W - 1 male, Jan. 12, Sundre - DUC
Sa - 2, March 25, Dinosaur P.P. - JOD, JMP
1979. Sa - 1 female, March 23, Carbon - MIR
1980. Sa - 1, March 22, Calgary - ANS
B - 16 pairs nesting in Edmonton - ARS

Peregrine Falcon *(Falco peregrinus)*

Salt & Salt (1976) state: "Today it is doubtful that any nest in the province." Fyfe et al. (1976b) report extensively on the 1975 Peregrine Falcon Survey and refer to 48 historical breeding sites in Alberta. Of these, many were last occupied in the 1950's, "with a few isolated pairs breeding into the late 1960's." In 1975, out of 44 sites investigated, three sites in northern Alberta were occupied. At one of these sites a pair "adopted and fledged six captive-bred young". The last productive nest site in southern Alberta was in 1972. They further state that it was "the last known...south of the boreal forest and east of the Rocky Mountains in North America."

Francis & Lumbis (1979) state that in 1977 there were 6 breeding pairs in the Canadian Shield near Ft. Chipewyan.

A captive breeding facility was established at Wainwright in 1972. From 1973 to 1975, 85 young were produced (Fyfe 1987). Captive-bred birds were first released in Canada in 1977.

Dekker (1979b) studied migrant Peregrine Falcons at Beaverhill Lake between 1969 and 1978. He recorded 541 sightings in spring and 34 sightings in fall. About 86% of spring birds passed through the area from May 4 to 23, with adults arriving nine days before immatures. Of birds that were identified in the spring, males composed 33% of adults and 35% of immatures. The ratio of adults to immatures in the spring was 1:1. In the fall, birds occurred from September 10 to October 4.

Dekker (1980) described hunting behavior at Beaverhill Lake between 1965 and 1979. From hundreds of observations of hunting flights, Peregrines were successful 7.7% of the time. Waterfowl and small shorebirds made up 94% of prey items, and most were seized in the air.

For Banff and Jasper National Parks, Holroyd & Van Tighem (1983) state that this species "has never occurred as more than an accidental migrant or non-breeding wanderer."

During this decade, Peregrine Falcons were reported during six winters.

1971. W - 1, Jan. 18, Calgary - RIP
Fa - 1, Sept. 15, Sylvan Lake - HSA
W - 2, Dec. 18, Monarch - FAS
1972. Sa - 1 male & 1 female, April 15, Beynon - GEA, WEB
S - 1 male, April 19, Frank Lake - BIL, VGL
 - 1, April 30, Beaverhill Lake - MIH
 - 1, May 22, Whitford - MIH
Sc - 1 female, May 30, Calling Lake - BIL
1973. Sa - 1, May 6, Beaverhill Lake - JOA, PAM
S - 1, May 18, Red Deer - RDR
Fa - 1, Sept. 25, Edmonton - HOH
F - 1, Oct. 6, Camrose - ETJ
Fc - 1, Oct. 15, Edmonton - MAM
W - 1, Dec. 30, Calgary - Christmas Bird Count
1974. W - 1, Jan. 5, Calgary - BIL
Sa - 1, March 9, Cochrane - JFH, LEH, MEH
S - 1 male, March 24, Madden - RUB
 - 1, March 26, Waterton Lakes N.P. - KEB
B - 1, June 19, Bow City - TED, HES
Fc - 1, Nov. 25, Dunstable - BIL, VGL, RIP
1975. W - 1 adult, Feb. 5, Pigeon Lake - Salt & Salt (1976)
 - 1 immature, Feb. 14, Longview - HWP
 - 1, Feb. 18, Cochrane - BRL
Sa - 1, April 15, Millarville - Collister & MacKay (1986)
S - 1, May 3, Tofield - ROS
Mp - 1 immature, Aug. 18, Vermilion Lakes, Banff N.P. - GRW
B - 3 pairs (1 pair produced 3 young), July, Canadian Shield near Lake Athabasca - Bishoff & Fyfe (1976)
Fa - 1, Sept. 19, Vermilion P.P. - GRG, MAH
Fc - 1, Oct. 9, Brant - RUB
 - 1, Oct. 10, Syncrude lease - Sharp & Richardson (1976)
W - 1, Dec. 2, Cochrane - SFJ
1976. W - 1, Jan. 13, Calgary - DBG
 - 1, Jan. 25, Bruce - RIP
S - 1, March 7, Bragg Creek - PES
Sc - 1, May 26, Gregoire Lake - WWS
Mp - 6, Aug. 3, Ft. Chipewyan - RAE
 - 1, Aug. 12, Lower Athabasca River, Jasper N.P. - GEH
Fc - 1 female, Nov. 14, Armada - RUB
1977. W - 1 adult, Feb. 17, Calgary - ADS
S - April 29, Ft. McMurray - Gulley (1979)
 - 1, May 10, Parker's Ridge, Banff N.P. - DOK (Holroyd 1984)
Mp - 1, June 28, Spray River, Banff N.P. - MAD (Holroyd 1984)
B - 6 breeding pairs in Ft. Chipewyan region nesting on lake islands and on cliffs in the Canadian Shield region - Francis & Lumbis (1979)
Fa - 1, Sept. 4, Edmonton - ERT, ALW, TBW

F - 1, Sept. 7, Lower Athabasca River, Jasper N.P. - JIW (Holroyd 1984)
- 1, Sept. 26, Bear Lake - ELC, GEC
- 1, Sept. 28, Sounding Lake - CAW
Fc - 1 adult, Oct. 29, High River - GRW
1978. S - 1, May 8 & 18, Canmore - EMV
- 2, May 22, Beaverhill Lake - RUB
- 1, May 23, Ft. McMurray - Gulley (1983a)
- 1, May 27, Edmonton - Wiseley (1979b)
Sc - 1, June 8, Canmore - EMV
1979. S - 1 immature, March 15, Springbank - RBP
- 1 female, March 20, High River - PMA specimen
- 1, May 15, Turner Valley - MGO
- May 26/27, Ft. McMurray - Wiseley (1980a)
- 1, May 31, Ft. McMurray - Gulley (1983a)
Mp - 1, July 26 & 28, Panther River, Banff N.P. - HOC, JHK (Holroyd 1984)
1980. S - 1, April 20, Ft. McMurray - Gulley (1983a)
- 1, April 22, Millarville - Collister & MacKay (1986)
- 1, May 24/25, Edmonton - Wiseley (1981)
Fa - 1, Sept. 22, Ft. McMurray - Gulley (1983a)
Fc - 1, Oct. 1, Ft. McMurray - Gulley (1983a)

Gyrfalcon *(Falco rusticolus)*

This species is an irregular wanderer that has been reported mainly from southern Alberta. During the decade, there was only one record for the mountains. Occurrence varies from year to year. The first fall records are usually from late October to late November, with the earliest being September 22. Gyrfalcons apparently leave Alberta for the arctic by mid-March, with the latest recorded spring departure date being May 14.

The Calgary area appears to be the best area for wintering Gyrfalcons. Wiseley & Pinel (1987) list 103 sightings from 1961 to 1985. The color phase most commonly reported was the gray phase. The white and black phases were scarce. They postulated that a dependable food supply may be the essential factor determining the winter residency of the Gyrfalcon, as exemplified in the large overwintering population of Mallards along the Bow River in east Calgary.

Dekker (1983) made only nine Gyrfalcon sightings at Beaverhill Lake between 1964 and 1983. During these years he was in the field for 464 days from September to December and 215 days in March and April.

Platt (1976) found that Willow Ptarmigan were the primary food source in winter on his study area in the northern Yukon, and suggested that the ability of a Gyrfalcon to overwinter in the arctic depended on its ability to take ptarmigan consistently. He also felt that young birds, lacking hunting efficiency required for winter conditions in the arctic, would move southward with worsening weather and the loss in prey diversity.

All records of white phase birds, and birds outside of the Calgary region, are reported below.

1971. W - 2, Jan. 3, Calgary - Christmas Bird Count
- 1 grey phase, Feb. 9, Oyen - MIH, JOK
- 1, Cardston - BIM (Houston 1971a)

1972. W - 1 grey phase, March 10, Majorville - WWS
Wa - 2 (1 dark, 1 somewhat white), Oct. 23, Del Bonita - ADB, CDB, LEH, PHH
1973. W - 1 white phase, Jan. 15, Calgary - NOB, EGO, SCO
- 1 dark phase, March 15, Drumheller - Houston (1973b)
Wc - 1, March 30, Scotfield - RDR
Wa - 1, Oct. 28, Bittern Lake - RDR
W - 1 white phase, Nov. 30 & Dec. 1, Edmonton - MAT, PAT
1974. W - 1 white phase, April 7, Tofield - BRB, GAB, GWG, LOG, TWT
Wc - 1, April 11, Red Earth Creek - PAS
- 1, May 7, Mundare - RUB, JAK
Wa - 1 grey phase, Oct. 9, Tofield - ROL, JIW
1975. W - 1 white phase, Jan. 26, Westward Ho - LIF, WIF
Wc - 1, March 23, Ardenode - TSS
Wa - 1 grey phase, Oct. 4, Syncrude lease - Sharp & Richardson (1976)
1976. Wc - 1, April 19, Lyalta - TSS
Wa - 1 grey phase, Nov. 12, Saskatoon Island P.P. - Fairbarns et al. (1981)
1977. W - 1 white phase, April 1, Frank Lake - GRW, GOW (Wagner 1977)
Wc - May 6, Ft. McMurray - Gulley (1979)
Wa - Sept. 22, Ft. McMurray - Gulley (1979)
1978. Wc - 1 white phase, April 23, Didsbury - ADS, DOS, PHS
- 1, May 14, Calgary - CFNS
Wa - 1, Nov. 25, Kathyrn - CLM
1979. W - 1, March 17, Evans Thomas Creek - Wiseley (1979a)
Wc - 1, April 28, Bear Lake - ELC, GEC
1980. Wa - 1, Nov. 22, Legal - JIL
- 1, Nov. 23, Big Hill Springs P.P. - Steeves (1981)

Prairie Falcon *(Falco mexicanus)*

The breeding range in Alberta is restricted to the river valleys and coulees of southern Alberta north to the latitude of Red Deer (Salt & Salt 1976). There are no known nesting records for the mountains. Dekker (1984a) reports a few nesting records from the North Saskatchewan River valley approximately 50 km southwest of Edmonton. Sharp (1973) refers to only two records for Waterton Lakes National Park: 2 birds on April 14, 1952 and 1 bird on July 14, 1972. Holroyd & Van Tighem (1983) state that there are no records of this species from Banff and Jasper National Parks before 1975. They list twenty records from 1975 to 1979, only one of which is west of the Front Ranges. Dekker (1984a) lists 26 observations from Banff National Park, Jasper National Park and the Willmore Wilderness between 1959 and 1983. The monthly breakdown of all 51 mountain records available to the authors is: February - 1, March - 1, April - 1, May - 2, June - 2, July - 6, August - 33, and September - 5. There are no records for October to January.

Dekker (1982a & 1984a) reports 35 observations from Beaverhill Lake between 1967 and 1983, with the majority occurring in September.

Fyfe et al. (1976a) studied the effects of five chemical pollutants on 161 nests between 1966 and 1973. It was found that higher levels of contamination resulted in fewer, or no, young produced. Woodsworth & Freemark (1981) report on the status of Prairie Falcons in Canada for COSEWIC. They state that there is evidence of declining populations and productivity during the 1970's in some areas, and that recent evidence indicates a possible trend to slowly increasing populations and range extensions, coinciding with declining pesticide residue levels.

1971. Eb - 1, May 16, Barrier Lake - DVW
B - 2 adults & 4 young, June 30, Acme - JAC, MAC, BRJ, HEJ
- 4 breeding pairs confirmed by observing young in eyries, plus 6 additional suitable nesting sites with adult falcons present, Dinosaur P.P. - Kondla (1978)
Em - 1, Sept. 25, Elk Island N.P. - Burns et al. (1986)
1972. Mp - 1, July 14, Carthew Summit, Waterton Lakes N.P. - Sharp (1973)
B - 4 eyries, summer, Dry Island Buffalo Jump P.P. - Smith & Kondla (1972)
1973. Em - 1, April 22, Tofield - DID
Mp - 1, July 21, Beaverhill Lake - LOG
Em - 1, Sept. 26 & Oct. 21, Tofield - DID
1974. Em - 1, April 28, Beaverhill Lake - GWG, LOG
B - 290 young banded in 83 nests, summer - HJA, RWF (Houston & Houston 1974)
Mp - 1, July 26, Jasper N.P. - WTC, BOF, RNW
- 1, Aug. 12, Willmore Wilderness - Dekker (1984a)
Em - 1 immature, Sept. 15 & Oct. 19, Tofield - Wolford (1975a)
1975. W - 1, Dec. 14, Edmonton - RIP
1977. Mp - 1, Aug. 5, 9 & 11, Ram Mountain - Dekker (1984a)
1978. B - 1 possible eyrie, June 16, junction of Camp Creek & Oldman River - CAW
W - 5, Dec. 26, Lethbridge - Christmas Bird Count
1979. B - 1 pair at eyrie, May 13, southwest of Pincher Creek - WWS
1980. Em - 1, March 26, Vine Creek, Jasper N.P. - Holroyd & Van Tighem (1983)
B - 1 bird at eyrie, July 1, southwest of Pincher Creek - WWS; the last year birds were at this site.
Mp - 1, Aug. 4, Willow Creek, Willmore Wilderness - Dekker (1984a)
Fc - 1, Nov. 16, Eagle Lake - ANS

FAMILY: PHASIANIDAE

Gray Partridge *(Perdix perdix)*

During the late 1970's, peak numbers were recorded in southern Alberta. The main population occurs in the grasslands and parklands with a disjunct population in the Peace River area, contrary to the map in Salt & Salt (1976).

Holroyd & Van Tighem (1983) refer to Gray Partridges as a very rare winter visitor in Banff and Jasper National Parks. They list only one record for this decade, after a few reports for the 1940's.

1975. Eb - 2, June 4, Waterton Lakes N.P. - KEB
1978. E - 1, August, Bow Valley P.P. - Wiseley (1979a)
W - 400, Dec. 17, Edmonton - Christmas Bird Count
- 437, Dec. 26, Lethbridge - Christmas Bird Count
1980. E - 1, April, Jasper N.P. - Holroyd & Van Tighem (1983)

Chukar *(Alectoris chukar)*

There is only one record for the decade, an accidental introduction. Previous attempts at establishing a Chukar population in Alberta have failed.

1971. E - 1 adult female, found dead, November, Round Hill - MIH (in PMA collection)

Ring-necked Pheasant *(Phasianus colchicus)*

The high populations of the late 1970's correspond with Gray Partridge peaks.

The pheasant hatchery at Brooks was rebuilt in the late 1970's and is still in operation. Large numbers of Ring-necked Pheasants are raised and released annually in southern Alberta by the provincial government. This species does not appear to be as hardy as Gray Partridges, and perhaps can not hold its own without these release programs.

1973. W - Jan. 1 to April 30, wiped out by blizzard on Jan. 2. One female seen in Feb. and none thereafter, 13-19 km west of Milo - EWB
Eb - 1, June 21, Mt. Norquay, Banff N.P. - Holroyd & Van Tighem (1983)
F - 1,500 released, week of Oct. 1-5, Tofield area by Fish & Wildlife
1974. Eb - 1 male, July, Chain Lakes P.P. - Crack & Danielson (1974c)
1978. W - 273, Dec. 26, Lethbridge - Christmas Bird Count

Spruce Grouse *(Dendragapus canadensis)*

Spruce Grouse formerly bred throughout most of northern, central and western Alberta, but the destruction of coniferous woods has forced it to retreat farther and farther north (Salt & Salt 1976).

Pendergast & Boag (1973) studied seasonal changes in the internal anatomy, and McCourt et al. (1973) studied female activities during laying and incubation.

Herzog & Keppie (1980) studied migration patterns in the Gorge Creek area. Keppie (1977b) studied the relationship between snow cover and the use of trees. Keppie (1975) studied clutch size of 21 completed nests. The number of eggs varied from two to six, with five eggs being the commonest clutch size.

Salt (1976) states that, in Kananaskis Provincial Park, Spruce Grouse ranged from the lowest elevations to near 2,193 m with the greatest concentration between 1,768 m and 1,981 m. They showed a preference for medium open lodgepole pine *(Pinus contorta)* or mixed coniferous woods.

The only reports of interest for the decade are listed below.

1971. W - 1, Dec. 19, Edmonton - Christmas Bird Count
1976. W - 3, Nov. 21, Elk Island N.P. - Burns et al. (1986)
1978. F - 100+, Sept. 23-27, Two Lakes Road to Nose Mountain, south to Porcupine Cabin and back (southwest of Grande Prairie) - BEW

Blue Grouse ***(Dendragapus obscurus)***

Sharp (1973) described the Blue Grouse as fairly common in Waterton Lakes National Park, with numbers varying from year to year. In the breeding season, they frequent a variety of elevations ranging from prairie poplar mosaic to the subalpine zone, being most common in coniferous types.

At Kananaskis Provincial Park, they primarily occupy the upper 100 to 300 meters of the forest, concentrating along the interfaces of subalpine fir *(Abies lasiocarpa)* or mixed coniferous with alpine larch *(Larix lyallii)* or larch-fir. There has been a steady decline since the early 1950's in the Kananaskis-Sheep River area (Salt 1976).

In Banff and Jasper National Parks most records are from dry slopes and old burns in the montane-subalpine region of the drier, more open valleys of the Front Ranges (Holroyd & Van Tighem 1983).

This species moves to higher elevations in winter (Johnsgard 1973). This movement, and the fact that they become more arboreal, may account for the lack of records during this season.

1975. B - 1 female, June 22, Seebe - LIF, WIF
 - 3+, July 11, Lundbreck - MGO
1979. B - 1 male, May 5, west of Turner Valley - DUC
 - 5 (brood), June 19, Banff N.P. - MGO
 F - 1 male & 3 females, Sept. 8, Horn Mountain - GEC
 - 2 males & 3 females, Nov. 17, Hat Mountain - ELC, GEC

Willow Ptarmigan ***(Lagopus lagopus)***

In Alberta, this species occurs as a resident in Jasper National Park, breeding as far south as the upper Rocky River and Poboktan Pass (Holroyd & Van Tighem 1983). There is some indication that Willow Ptarmigan are resident in Alberta as far north as the Kakwa area southwest of Grande Prairie.

Holroyd & Van Tighem (1983) report six broods since 1975 in Jasper National Park. Willow and White-tailed Ptarmigan frequent different habitats in the breeding season, with Willow Ptarmigan preferring lusher vegetation with scattered clumps of trees at lower elevations. However, their winter habitat requirements are similar and both species are seen close to each other, but not in mixed flocks.

In northern Alberta, Willow Ptarmigan occur as winter visitors from October to April generally as far south as 57 degrees North (Salt & Salt 1976). During the winter of 1976/1977, Francis & Lumbis (1979) reported the fall arrival and spring departure dates for the Ft. MacKay area as late November and early April, respectively. Höhn (1984) reports on winter occurrences in northern Alberta. In far northern Alberta the sex ratio of males to females was 1:1, while farther south in north-central Alberta the sex ratio was 1:3. Several reasons were put forth explaining why females occur further south than males.

1972. W - 2 small flocks, early March, Ft. Chipewyan - Höhn (1972a)
1978. Eb - 1 female with brood, July 29, Little Kakwa River - CRW
 E - 4 males, Sept. 16, Horn Mountain - GEC
1979. E - 4 males, Aug. 25, Horn Mountain - GEC

White-tailed Ptarmigan *(Lagopus leucurus)*

It is interesting to note that most sightings of White-tailed Ptarmigan are of females with broods from late July to August.

Herzog (1977) investigated summer habitat use in the Kananaskis area. In summer, he found them in areas of alpine vegetation interspersed with approximately 50% rock, and water available within 25 meters. Males and broodless females moved away from breeding ranges in late July. Females with broods remained, but frequently travelled downhill along stream courses, even to below treeline.

Herzog (1980) investigated winter habitat use in the Kananaskis area. The critical factor influencing habitat use appeared to be availability of food, mainly willows (*Salix* spp.). In 1977, most sightings were in alpine cirques where low growing willows were snow-free. In 1978 the alpine willows were snow covered and 99% of sightings occurred along streams and willow flats in the subalpine forest, 2.5 to 7.5 km from cirque habitats. The average flock size for the two winters was six birds.

Salt (1984) studied White-tailed Ptarmigan in various areas of the province from 1946 to 1984. Brood size ranged from three to eight birds. Winter flocks usually consisted of less than eight birds.

1976. B - 20+ white, May 3, Deception Pass near Skoki area, Banff N.P. - KVT
Fb - 10, Sept. 6, Whistler Mountain, Jasper N.P. - DVW, LIW
1978. Sb - 1 flock of 33-35, mid-March, Mt. Athabasca, Jasper N.P. - Salt (1984)
F - 1 female & 6 immatures, Sept. 16, Horn Mountain - GEC
1979. B - 35, Aug. 25, Horn Mountain - GEC
F - 4, Nov. 17, Hat Mountain - ELC, GEC

Ruffed Grouse *(Bonasa umbellus)*

During this decade, peak numbers of this cyclic species occurred from 1976 to 1978.

With the exception of the Cypress Hills, where this species has been introduced, its range in eastern Alberta extends south to the edge of the aspen parkland. This species also extends into the grassland region along the wooded Red Deer River valley to about the Rosedale area.

1975. B - several drumming, June 5, Neutral Hills - CAW
1976. B - 1, May 3, Drumheller - WWS
Fb - 30, Nov. 15, Chain Lakes P.P. - KVT
1977. B - 1 male drumming, June 4, Munson Ferry - CAW
Fb - 14, Nov. 11, Millarville - HWP
- 12, Nov. 26, Millarville - HWP
1978. Fb - 20+, Sept. 28, west of Chain Lakes P.P. - HWP

Sage Grouse *(Centrocercus urophasianus)*

The Alberta population was monitored from May 1975 to August 1976. There was a mean of 16.5 cocks per lek for 21 dancing grounds in May, 1976. This was about one-half the cocks counted per lek in 1969. A relatively low ratio of

1.6 and 1.5 juveniles per adult hen, during the summers of 1975 and 1976 respectively, indicated poor reproduction. It is not known if this was a temporary decline, or a permanent decline due to intensified agricultural land use (Windberg 1976).

1972. F - 1 female, Aug. 9, Etzikom - HWP, LIP
- 25, Oct. 15, south end of Pakowki Lake - WWS, CAW, CRW, RAW

Greater Prairie-Chicken ***(Tympanuchus cupido)***

There is one hypothetical record listed below for Alberta. However, there are three records of interest from western Saskatchewan. A bird was seen on December 19, 1971 near Mortlach (Brazier 1972a), one on April 16, 1972 near Mortlach (Brazier 1972b), and one adult male was collected near Leader on November 3, 1972 (Hatch 1973).

[1972. W - 1, March 5, Mountain View - Salt & Salt (1976)]

Sharp-tailed Grouse ***(Tympanuchus phasianellus)***

Salt & Salt (1976) indicate that this species is widely distributed across the province. In the 1970's, our data indicates that in western Alberta, Sharp-tailed Grouse were rarely found in the foothills, but were fairly common in the Porcupine Hills. In the grassland ecoregion, only small pockets of Sharp-tailed Grouse remain, and are usually associated with sandhills and lightly grazed grasslands. Sharp (1973) indicates that only a few occur in Waterton Lakes National Park. Holroyd & Van Tighem (1983) list this species as a very rare fall and winter visitor to Banff and Jasper National Parks. Francis & Lumbis (1979) describe this species as occurring sporadically in the Ft. MacKay area.

Moyles (1981) studied Sharp-tailed Grouse habitat use in the parklands in the Wainwright area.

1971. W - 9, March 23, east of Airdrie - WWS
B - 2, July 31, Blakiston River, Waterton Lakes N.P. - Sharp (1973)
F - 3, Oct. 9, Carseland - COS
1972. W - 40, Nov. 17, Glenevis - GEP
1974. B - 6, July 27, Police Outpost P.P. - Crack & Danielson (1974a)
F - 75, Oct. 14 & 25, Red Deer River (Bindloss) - WWS
1976. B - observed once in dry *Sphagnum* bog in summer, Lesser Slave Lake P.P. - Bradley (1980a)
W - 100+, Nov. 20, Alkali Creek near Buffalo - HWP
1977. B - 14+ males on 2 dancing grounds in open muskegs, spring, Ft. MacKay area - WWS (Francis & Lumbis 1979)
W - 100+, Oct. 31, Stavely - HWP, JOR
1978. W - 166, Dec. 26, Lethbridge - Christmas Bird Count
1979. F - 30, Oct. 23, Pollockville - HWP
1980. F - 60, Oct. 18, A7 Ranch west of Stavely - HWP

Wild Turkey ***(Meleagris gallopavo)***

There have been at least ten introductions of this species into Alberta since the initial introduction into the Cypress Hills in March 1962. Salt & Salt (1976) and Sadler & Myres (1976) state that there were sixteen birds (including eleven females) released in this initial introduction. Hofman (1975), in summarizing the status of Wild Turkey introductions into Alberta, states that there were 21 birds (8 adult males, 5 adult females and 8 immatures) in this first release.

Sadler & Myres (1976) report that Wild Turkeys were released into only the Cypress Hills and the Porcupine Hills. Hofman (1975) says that there was also a release in the Battle River valley near Stettler in 1970. Salt & Salt (1976) state that there were releases near Forestburg and near Stettler in 1971. It appears to the authors that these were the same introductions with a discrepancy in the year of release.

As of April 1975, there were 398 Wild Turkeys released in seven general areas of Alberta. The Cypress Hills and the Porcupine Hills are the only localities where this species has become established.

Included below is a complete summary of known releases.

1962. - 8 adult males, 5 adult females & 8 immatures, March 6, released in the Cypress Hills - Hofman (1975)
1967. - 8 adult females, Jan., released in the Porcupine Hills - Hofman (1975)
- 2 adult males & 2 adult females, March, released in the Porcupine Hills - Hofman (1975)

1970. - 15 immatures, Nov., released in the Battle River valley near Stettler - Hofman (1975)
1971. - released near Forestburg & near Stettler; a few young raised in the following 2 years but by 1973 only a very few could be found in these areas - Salt & Salt (1976)
- 10 adult males & 20 adult females, September, released along the Milk River near Writing-on-Stone P.P. - Hofman (1975); the last confirmed sighting in this area was in Dec., 1972

1972. - 13 adult males & 42 adult females, May/June, released in the Belly River valley near Ft. Macleod - Hofman (1975); reports ceased after 1972, except for a group of 5 observed at least until the spring of 1975
- 45 immatures, September, released in the Battle River valley near Big Knife P.P. - Hofman (1975)
- 92 immatures, September, released along the Oldman River near Ft. Macleod - Hofman (1975)

1973. - 12 adult males, 35 adult females & 41 immatures, March 14, released in the Porcupine Hills - Hofman (1975)
B - 1 male, 2 females & 2 nests found, Big Knife P.P. - Ebel et al. (1973d); one abandoned nest with 8 eggs and one nest with 9 eggs (2 of which hatched).
1974. - 5 adult males & 15 adult females, April 22, released in the Porcupine Hills - Hofman (1975)
B - 1, May 18, Elkwater - LIM, DVW

Northern Bobwhite *(Colinus virginianus)*

This species was not reported by Sadler & Myres (1976). Observations of this species undoubtedly stem from accidental introductions. Birds may occasionally survive for a year or two and nest, but permanent populations have not become established.

1969. B - nest with eggs, Lethbridge - Salt & Salt (1976)

1974. F - several shot from covey of about 20, Nov. 11, Mundare - DEU (Salt & Salt 1976)
1980. S - 1, late March, Alcomdale - reported in Bob Lister's column (Edmonton Journal of April 12, 1980)

FAMILY: RALLIDAE

Yellow Rail *(Coturnicops noveboracensis)*

In Alberta, the center of abundance for this species is the east-central portion of the province (Nordstrom 1978a). Yellow Rails are scarce north and south of this region. For example, Francis & Lumbis (1979) refer to only one record in the Ft. MacKay area despite extensive field work.

To more fully understand this species' distribution, more nocturnal field work is required, especially in its preferred habitat of extensive sedge (*Carex* spp.) marshes.

There are no records of migrants.

1973. Eb - 1, June 26 & 27, Beaverhill Lake - REG, ARS (Nordstrom 1978a)
- 5, July 14-21, Beaverhill Lake - LOG (Nordstrom 1978a)
- 4, July 28, Beaverhill Lake - DID (Nordstrom 1978a)

1974. Eb - few, May 27, 8 km northeast of Spruce Grove - JIW (Nordstrom 1978a)
- several, June 25, Mannville - RIK
- 4, July 15-18, Lamont - ARS (Nordstrom 1978a)
- 1, Sept. 11, Mannville - RIK

1975. Eb - 1, June 9, Ribstone Creek northeast of Czar - CAW, CRW
- occasionally heard from marshes along Ribstone Creek northeast of Czar, July 9 & 10 - Bradley & Bradley (1977c)
- 1, July 19, Lac la Biche - Serr (1975c)

1976. B - up to 15 birds, June 5-11, Cold Lake P.P. area - WWS, CAW (Nordstrom 1978a)
- several, July 5, Cold Lake - Nordstrom (1978a)

1977. B - 1, May 26, heard in dwarf birch-sedge (*Betula pumila - Carex* spp.) fen, Ft. MacKay area - WWS (Francis & Lumbis 1979)
- 2, May 29, Elinor Lake - Nordstrom (1978a)
- several, June 6, Cold Lake - Nordstrom (1978a)
- several, June 7, 16 km south of Wolf Lake - Nordstrom (1978a)

1978. Eb - 1, summer, Lesser Slave Lake - Bradley (1980a)
1980. B - 3, June 22, St. Albert - RAE

Virginia Rail *(Rallus limicola)*

There has been very little nocturnal censusing for this species in Alberta. As a result, their breeding range is poorly understood. Bulrush (*Scirpus* spp.) or cattail *(Typha latifolia)* marshes seem to be its preferred habitat in Alberta.

Nordstrom (1978a) gives an account of their status in the Cold Lake area. Although Salt & Salt (1976) state that Virginia Rails breed at Brooks and Many Island Lake, the authors are not aware of any recent records for these areas. The map in Salt & Wilk (1966) appears to give a better impression of this species occurrence in Alberta than the map in Salt & Salt (1976).

Little is known of the migration patterns of this species in Alberta.

1971.	Em	- 1 adult female, Banff N.P. - PMA specimen
1972.	Em	- 1 immature, Sept. 28, Calgary - HWP, CAR (Pinel & Butot 1978)
1975.	Em	- 1, May 14, lower Milk River near the U.S. border - Wallis (1976)
1976.	B	- 16, June 9, Cold Lake P.P. area - WWS
1977.	B	- 1, June 20, Ft. MacKay area - WWS; erroneously reported by Francis & Lumbis (1979) as June 23
1978.	B	- 1 calling, May 27, Sounding Lake - CAW
1979.	B	- 1, May 26/27, Edmonton - PSA, JIF, ALS
1980.	B	- 1, May 24, Elk Island N.P. - RTS (Burns et al. 1986)
	Eb	- 1, May 31, Conrich - DAE
	Em	- 1, Sept. 8, Calgary - Steeves (1981)

Sora *(Porzana carolina)*

The first spring migrants arrive in southern Alberta in late April and early May. Francis & Lumbis (1979) state that the arrival date in the Ft. MacKay area is May 13.

Sharp (1973) did not record this species in Waterton Lakes National Park from 1966 to 1972. Holroyd & Van Tighem (1983) call this species an uncommon resident in summer in Banff and Jasper National Parks.

Fall records of Sora are few, but it appears that most leave the province by mid-September.

1971.	Sa	- 1, April 22, Vermilion Lakes, Banff N.P. - WWS
	Fc	- 3, Sept. 11, Calgary - RIP
1972.	Sa	- 1, April 30, Namaka Lake - CFNS
	Fa	- 1, Aug. 12, Calgary - WWS
	Fc	- 1, Sept. 28, Frank Lake - CDB
1973.	Sa	- 1, May 12, Tofield - GWG, LOG
		- 5, May 12, Big Lake - JIW
		- 1, May 13, Priddis - BIL, VGL
	Fc	- 1, Sept. 16, Beaverhill Lake - LOG
1974.	Sa	- 1, May 8, Conrich - RUB
		- 2, May 10, Dunstable - VGL
	Sb	- 10, May 18, Calgary - EMG, WGG
1975.	Sa	- 1, May 8, Peace River - RIP
		- heard, May 10, Tofield - DID
		- 1, May 12, Shepard - KAM
		- May 12, Syncrude lease - Sharp & Richardson (1976)
1976.	Sa	- April 25, Ft. McMurray - Gulley (1979)
	B	- 15, June 9, Cold Lake P.P. area - WWS
1977.	Sa	- 1, May 7, Eagle Lake - HWP, JOR
		- 1, May 8, Beaverhill Lake - CAW, CRW
	Fc	- 1, Sept. 9, Ft. MacKay - WWS
		- Sept. 16, Banff N.P. - Holroyd & Gartshore (1978)
1978.	Sa	- May 6, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
		- 1, May 7, Eagle Lake - HWP
	Sb	- 21, May 28, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
	Fc	- 1, Sept. 10, Namaka Lake - RUB
1979.	Sa	- 1, May 6, Tofield - DVW, LIW
		- 1, May 6, Wembley - ELC, GEC
	Fa	- 2, Aug. 22, Calgary - CAO

1980. Sa - 1, April 28, Cheadle - TSS
B - 25, June 28, Warburg - RAE

American Coot *(Fulica americana)*

American Coots arrived in southern Alberta between April 6 and 13 with the exception of one year. Francis & Lumbis (1979) state that the arrival date in the Ft. MacKay area is April 27. For Banff and Jasper National Parks, Holroyd & Van Tighem (1983) give the peak of spring migration as late April to early May.

American Coots are not known to nest in Waterton Lakes National Park although there are a few suggestive records (Sharp 1973). This species is not known to nest in Banff and Jasper National Parks (Holroyd & Van Tighem 1983).

In Waterton Lakes National Park during the fall, it appears that several waves of migrants pass through, numbering several thousands (Sharp 1973). In Banff and Jasper National Parks, Holroyd & Van Tighem (1983) record the fall peak as late September. Francis & Lumbis (1979) give the departure date from the Ft. MacKay area as September 29. Stragglers linger in southern Alberta until mid-November.

The first winter observations of this species in the province occurred during the decade, primarily at Wabamun Lake.

1971. Sa - 1, April 10, Strathmore - TGL, ISS, TSS
Fb - 3,000, Oct. 7, Frank Lake - CDB, RDB
Fc - 11, Oct. 25, Calgary - RAO, HWP, CAW, DVW
- 271, Oct. 29, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
1972. Sa - 1, April 6, Shepard - VGL, RIP, CAW
Sb - 150, April 30, Strathmore - CFNS
- 150, May 6, Lac des Arcs - BIL, VGL
Fb - 2,200+, Sept. 17, Calgary - VGL, DVW
Fc - 1, Nov. 18, Hastings Lake - LOG
Ew - 5, Dec. 31, Wabamun Lake - LOG
1973. Ew - 7, Feb. 18, Wabamun Lake - GWG, LOG, LOW, POW
Sa - 1, April 11, Cheadle - ISS
Sb - 200, April 23, Lac des Arcs - BIL, VGL
Fb - 3,000+, Oct. 1, Knights Lake, Waterton Lakes N.P. - DAC
Fc - 1, Nov. 18, Wabamun Lake - LOG
1974. Sa - 4, April 12, Cayley - RUB
- 1, April 14, Ryley - GWG, LOG
Fb - 2,566, Sept. 23-26, Hay-Zama Lakes - Gunn et al. (1975)
Fc - 1, Dec. 1, Calgary - RUB
Ew - 8, Dec. 26, Wabamun Lake - RIP
1975. Sa - 4, April 13, Crossfield - CAR
Sb - 200+, April 24, Connemara - HWP, CAR
Fb - 5,000, Sept. 5, Lake Newell - EWB
Fc - 1, Nov. 11, Big Lake - RAE
Ew - 7, Dec. 26, Wabamun Lake - RIP
1976. Ew - 4, Jan. 29, Galahad - KAS
Sa - 1, April 8, Irricana - RUB
Sb - 200, April 30, Frank Lake - ELH
Fb - 1,500, Sept. 12, Calgary - ANS
Fc - 1, Nov. 14, McGregor Lake - RUB
Ew - 36, Dec. 1, Wabamun Lake - DVW

- 28, Wabamun Lake - Smith & Prach (1980)
1977. Ew - 3, Feb. 10, Galahad - KAS
Sa - 1, April 12, Calgary - CAO
Sb - 500, April 30, Frank Lake - RUB
Fb - 800, Aug. 28, Frank Lake - RUB
Fc - 4, Nov. 13, Frank Lake - GRW
Ew - 1, Dec. 18, Stettler - Christmas Bird Count
- 8, Wabamun Lake - Smith & Prach (1980)
1978. Sa - March 29, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Sb - 1,050, April 28, Hay-Zama Lakes - Gollop (1978)
Fb - 1,000+, Sept. 10, Namaka Lake - RUB
Fc - 2, Nov. 7, Kathyrn - CAO
- Nov. 8, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- 20, Nov. 10, Knights Lake, Waterton Lakes N.P. - SIL
Ew - 6, Wabamun Lake - Smith & Prach (1980)
1979. Sa - 1, April 8, Carseland - RUB, KIF
Sb - 1,000+, April 21, Cayley - RUB
Fc - 2, Nov. 11, Ghost Reservoir - SEA, JMP
Ew - 1, Dec. 16, Calgary - Christmas Bird Count
- 14, Wabamun Lake - Smith & Prach (1980)
1980. Sa - 2, April 13, Calgary to Rockyford - CFNS
Fc - 5, Oct. 13, Carseland - HWP

FAMILY: GRUIDAE

Sandhill Crane *(Grus canadensis)*

The first spring migrants appear in the last half of April. Sandhill Cranes peak in east-central Alberta in early May, after which time only a few stragglers remain until the third week of May.

There are four extralimital breeding season records. In addition to the Police Outpost Provincial Park record of 1974, other reports from this area in the late 1970's and early 1980's (JHE pers. comm.) indicate probable nesting. These birds may be Greater Sandhill Cranes (subspecies *canadensis*), a race which has not yet been documented for Alberta.

In the fall, a few migrants are observed in August. Most birds have left by mid-October. Sharp (1973) lists no records for Waterton Lakes National Park. Holroyd & Van Tighem (1983) have no records for Banff or Jasper National Parks since 1945.

1971. Sa - 2, April 20, Taylor - NGK, HWP
Fa - 1 adult, Aug. 8, Frank Lake - BIL, VGL, DVW
Fb/Fc - 300, Oct. 2, Chain Lakes near Hanna - CDE, RDB
1972. Sa/Sb - 20,000, April 28, Smoky Lake - THB
Sc - 2, May 28, 16 km south of Beynon - WWS, CAW, CRW
Fa - 1, Aug. 2, Dry Island Buffalo Jump P.P. - WWS
Fc - 1, Nov. 11, Beaverhill Lake - LOG
1973. Sa - April 21, began passing through Tofield area - GWG, LOG
Sb - several thousand in large flocks, May 2, Beaverhill Lake - ETJ
Eb - 2 adults & 2 young, June 16, Crimson Lake P.P. - Biggs et al. (1973)
Fa - 1 adult, Aug. 31, Morley - RBG, SCO
Fb - 2,000, Sept. 16, Tofield - EBC

Fc - 15, Oct. 13, Hanna - CDB
1974. Sa - 1, April 14, Mundare - DID
Sb - 50,000, May 1-2, Beaverhill Lake - DID
Em/Sc - 1, May 21, Pekisko - HWP, CAR
Eb - 2 adults (nesting behavior observed), June 6, Dovercourt - Tull (1975)
- 2, June 9, Police Outpost P.P. - KVT, CRW
Fa - 50, Aug. 28, Edmonton - STJ
Fc - 1 immature, Oct. 14, Tofield - DID
1975. Sa - 3, April 27, Ft. McMurray - LYS
Sb - tens of thousands, May 1, Tofield & Sherwood Park - BEB, GEB, DID
Sc - 4, May 10, Tofield - DID
Fb - 650, Sept. 21, Dowling Lake - RUB
Fc - 9, Oct. 12, Peace River - DVW, LIW
1976. Sa - 15, April 2, Galahad - Acorn (1976b)
Sb - 50,000+, May 1, Stony Plain - BRB, GAB
Sc - flock, May 2, Neutral Hills - WWS
Fa - 11 flying south, Aug. 2, Ft. Chipewyan - RAE
Fb - 2,000 flying south each day, Aug. 11 & 12, Gregoire Lake - WWS
- flocks of thousands going over continuously, Sept. 22, 23, 24 & 27, Peace River - EDC
Fb/Fc - 2,000, Oct. 8, Douglas Lake - BRA
Fc - 300, Oct. 9, Edmonton - ERW
1977. Sa - 1, April 19, Ft. MacKay area - WWS
- 4, April 20, Wayne - HWP, JOR
Sc - 1, May 29, Lethbridge - Wiseley (1979b)
Fa - 22, Sept. 17, Dalroy - HWP
Fc - 3, Oct. 6, Saskatoon Lake - ELC, GEC
- 500, Oct. 9, Grassy Island Lake - BRA
1978. Sa - 2, April 22, Dogpound - JMP
Fc - 20, Oct. 23, Grande Prairie - WAM
1979. Sa/Em - 1, April 30, Maskinonge, Waterton Lakes N.P. - WWS
Sa - 5, April 30, Saskatoon Lake - ELC, GEC
Sb - 6,600, May 10, Edmonton - RAE
Sc - 1, May 26, Lethbridge - Wiseley (1980a)
Fa - 10, Aug. 6, Calgary - CAO
1980. Sc - 1, May 31 & June 1, Lethbridge - Wiseley (1981)
Eb - 2 adults & 1 young, June 25, about 40 km northeast of Edson - Nordstrom (1982)
Fa - 2, Sept. 12, Shepard - ANS
Fb - 3,000 (flying over in 2 hours), Sept. 14, Beaverhill Lake - PTS, ERT, TWT

Common Crane *(Grus grus)*

No observations have been reported for this decade.

Whooping Crane *(Grus americana)*

In recent times, Whooping Cranes were known to nest only in the Northwest Territories portion of Wood Buffalo National Park. However, in 1977 a nest with two eggs was found in Wood Buffalo National Park about five km south of the Northwest Territories/Alberta border. Nesting was again observed in the Alberta section of Wood Buffalo National Park in 1978 and 1979 by ERK. Previously, the last known Alberta nest was at Wainwright in 1914 (Kuyt 1978).

There has been an attempt to establish a second breeding population of Whooping Cranes at Gray's Lake, Idaho. Since 1977, surplus eggs have been shipped to Idaho and placed in nests of foster parent Sandhill Cranes. There are now 40 Whooping Cranes in this population (Kuyt 1987).

The migration route of Whooping Cranes in Canada is primarily in Saskatchewan. Most migration records of this species in Alberta are extralimital in nature. There is an unusual fall record for 1975. There is also an extremely interesting record during the summer/fall of 1979 in southern Alberta.

Godfrey (1986) states that the total population was 80 (including 21 in captivity) in 1971, 118 (including 23 in captivity) in 1980 and 144 (including 37 in captivity) in 1983.

1972. **Em** - 9, April 9, Camrose - Spalding (1972)
1973. **Em** - 2 adults & 2 immatures, fall, junction of Wabasca & Peace Rivers (Ft. Vermilion area) - Gainer (1986)
1974. **Em** - 1 adult, April 15, Mundare - DNG
- 1 adult & 1 immature, Oct. 8, Ruth Lake - Sharp et al. (1975)
1975. **Em** - 24, Sept. 19, Cochrane - JOR
- 2 adults & 1 immature, Sept. 26, Syncrude lease - Sharp & Richardson (1976)
1977. **Em** - 4, May 6, Golden Lake near Ft. McMurray - ARB
Eb - nest with 2 eggs, May 9, 30 km south of Sass River area & 5 km south of the 60th parallel - Kuyt (1978); first time in 63 years that they have nested in Alberta - last known record was in 1914 near Wainwright.
Em - 2 adults, fall, Sangudo - SET (Stephen 1979)
- 1 adult, Sept. 15, Crow Indian Lake - Stephen (1979)
- 1, Sept. 15 & 16, Skiff - AGL (Stephen 1979)
1978. **Em** - 1 immature, May 6, Vermilion P.P. - KEW
Eb - nest with 2 eggs, May 11, same marsh 30 km south of Sass River - ERK (P.N.R.S.)
- 4, June 22, Flatbush - SAW (Stephen 1979)
Em - 1, Oct. 12, Bonnyville - RBS (Stephen 1979)
- 1, Oct. 16, Hays - MLM (Stephen 1979)
1979. **Em** - 10, April, Beaverhill Lake - DID
Eb - nest with 2 eggs, May 13, Little Buffalo River, Wood Buffalo N.P. - ERK (P.N.R.S.)
Eb/Em - 1 (2nd year bird), Sept. 8 & 15, Cardston - seen since before July 12 - RUB, WIH, BIM, WGM - RUB photographed this exact bird in Aransas, Texas in Dec. 1978 as a brown plumaged bird together with its two parents. The bird was banded blue on right leg and red with white band in middle on left leg (both above the knee).

FAMILY: CHARADRIIDAE

Black-bellied Plover *(Pluvialis squatarola)*

The first migrants usually arrive during the first and second weeks of May with most spring migrants passing through during the last half of May. There is an exceptionally early spring record in 1974.

Fall migrants arrive in southern Alberta in late July and August. The last fall migrants have been recorded from October 7 to November 1. Observations from the mountains are rare. During this decade, all occurred during the fall passage.

Kershaw (1977), in summarizing observations in the Edmonton area, stated that 68% of the total number of birds sighted occurred from the second week of May through the first week in June, and that 93% of these spring observations occurred in the third and fourth week of May. The flock size ranged from 2 to 100 birds. During fall migration, 31% of the total weekly observations occurred between the second week of August and the end of October.

1971. Sa - 3, May 22, Calgary - HAV
Sa/Sb - 1,500, May 22, Lake Newell - ROL, MTM, DVW
Sc - 1, June 2, Calgary - DVW
Fa - 10-12, July 31, Lake Newell - BIL, VGL
Fc - 19, Oct. 9, Irricana - RAO, DVW
1972. Sa - 5, May 6, Frank Lake - GEA, WEB
Sb - 250, May 12, Lake Newell - VGL
Sc - 11, May 27, Standard - HWP, LIP
- 106, May 27, Irricana - RIP, DVW
Fa - 1, July 16, Mattoyekiu Lake - CAW
Fb - 50, Oct. 5, Tofield - DID
Fc - 3, Oct. 27, Tofield - DID
1973. Sa - 2, May 10, Beaverhill Lake - JIW
Sb - 99, May 16, Lake Newell - VGL, CAR
- 100+, May 21, Beaverhill Lake - MIH
Sc - 1, June 3, Whitford Lake - GWG, LOG
Fa - 2, July 13, Beaverhill Lake - GWG, LOG
Fb - 76, Aug. 15, Hussar - WWS, CAW
Fc - 1, Oct. 28, Cooking Lake - LOG (Lang 1974a)
1974. Sa - 1, April 28, Tofield - GWG, LOG
Sb - 125, May 25, Conrich - HAV
Fa - 14, Aug. 11, McGregor Lake - EWB
Fc - 16, Oct. 27, Irricana - RUB
1975. Sa/Sb - up to 50 birds, May 6-25, Tofield - EBC, DID
Sc - 1, June 14, Tofield - DID, ROS
Fa - 2, Aug. 6, Beaverhill Lake - DVW
- 3, Aug. 8, Syncrude lease - Ward et al. (1976)
F - 1, Sept. 1, Two Jack Lake, Banff N.P. - BRG
Fc - 3, Oct. 14, Beaverhill Lake - ROB, DVW
1976. Sa - 3, May 16, Irricana - RUB
Sb/Sc - 84, May 30, Lethbridge - Weseloh (1976a)
Fa - 2, Aug. 1, Delacour - RUB
F - 1, Sept. 10, Two Jack Lake, Banff N.P. - Holroyd & Van Tighem (1983)
Fb - 159, Sept. 24 & 26, Milo - Butot (1977a)
Fc - 1, Nov. 1, Irricana - RUB
1977. Sa - 3, May 8, Beaverhill Lake - DVW
Sb - 300, May 23, Millicent - AAJ, SAJ, TWT
Sc - 1, May 29, Writing-on-Stone P.P. - HWP
Fa - 2, Aug. 14, Irricana - LOB, BIL
Fb - 395, Aug. 28, McGregor Lake - RUB
F - 3, Sept. 17, Lower Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - Oct. 14, Ft. McMurray - Gulley (1979)
- 2, Oct. 23, Irricana - RUB
1978. S - 4, May 27/28, Grande Prairie - Wiseley (1979b)
- 325, May 27/28, Edmonton - Wiseley (1979b)
- 363, May 28, Lethbridge - Wiseley (1979b)

Fa - 2, July 22, Beaverhill Lake - JAS, MES
F - 2, Sept. 18, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 18, Oct. 7, Brooks - RUB
1979. Sa - 10, May 17, Beaverhill Lake - RUB
Sb - 264, May 26/27, Lethbridge - Wiseley (1980a)
Fa - 7, Aug. 5, Strathmore - RUB
Fb - 150, Sept. 2, Milo - RUB
1980. Sa - 3, May 10, Chestermere Lake - JOR
Sb - 65+, May 25, Bruce Lake - JOR
Fa - 2, Sept. 4, Balzac - CAO
Fc - 1, Oct. 13, Balzac - CAO

Lesser Golden-Plover *(Pluvialis dominica)*

Spring migrants arrive in early or mid-May. They are more frequently seen and occur in larger numbers in the Edmonton area than near Calgary. Flocks of more than 50 birds are rare. Notable is the large number recorded at Lake Newell in the spring of 1972. Mountain records are few, but they have been reported in both spring and fall.

Kershaw (1977), in summarizing sightings in the Edmonton area, reports that 89% of all observations occurred during the first three weeks of May, and 11% occurred from the second week of September to the third week of October.

There are three sightings of fall migrants in southern Alberta during late August.

1972. Sa/Em - 1, May 6, Vermilion Lakes, Banff N.P. - BRG (Rogers 1972)
Sb - 500, May 11, Lake Newell - VGL
Fa - 2, Sept. 15, Beaverhill Lake - MRH, MAM, PAM, PAT
- 1, Sept. 16, Conrich - VGL
Fc - 2, Oct. 22, Beaverhill Lake - DID, LOG
1973. Sa - 40, May 12, Beaverhill Lake - DID
Sb - 100, May 18, Beaverhill Lake - DID
Eb - 1, July 21, Beaverhill Lake - LOG
Fa - 4, Sept. 15, Beaverhill Lake - DID
Fc - 4, Sept. 30, Beaverhill Lake - LUB, DID
1974. Sa - 16, May 7, Beaverhill Lake - DID
Sb - 70, May 8, Beaverhill Lake - DID
Sc - 2, June 2, Beaverhill Lake - JIW
Fa - 3, July 26, Syncrude lease - Sharp et al. (1975)
Fb - 30, Sept. 8, Tofield - DID
Em - 1, Oct. 6, Plateau Mountain - SEA, CRW, RAW
Fc - 2, Oct. 27, Tofield - DID
1975. Sa - 1, May 13, Syncrude lease - Sharp & Richardson (1976)
Sa/Sb - up to 30 birds, May 2-24, Tofield - DID, BRT
Eb - 1, July 2, Syncrude lease - Sharp & Richardson (1976)
Fb - 55, Sept. 4, Syncrude lease - Sharp & Richardson (1976)
Fc - 1, Oct. 27, Water Valley - Johnston (1976b)
1976. S - 1, May 21, Suffield (C.F.B.) - Karasiuk (1976b)
Fa - 3, Sept. 16, Tofield - MRB, DVW, LIW
Fc - Oct. 13, Ft. McMurray - Gulley (1979)
1977. Sa/Sb - 189, May 8, Beaverhill Lake - DVW
Sa - 50, May 11, Grande Prairie - GEC
- May 13, Ft. McMurray - Gulley (1979)
Sc - 1, June 12, Little Bow Lake - HWP, JOR
Fa - 1, Aug. 28, McGregor Lake - RUB

Fc - 6, Oct. 2, Eagle Lake - JOD, PES
- 9, Oct. 2, McGregor Lake - RUB

1978. Sa - 6, May 9, Wembley - ELC, GEC
Sb - 150, May 24, Beaverlodge - LRD, RBD
- 175, May 27/28, Edmonton - Wiseley (1979b)
Sc - 37, May 27, Grande Prairie - DBS, LES
- 48, May 27/28, Ft. McMurray - Wiseley (1979b)
- 2, May 28, Lethbridge - Wiseley (1979b)

1979. Sa - 2, May 13, Beaverlodge - ELC, GEC
Sb - 60+, May 19, Beaverhill Lake - RUB
Sc - 15, May 26/27, Calgary - Wiseley (1980a)
Em/Fa - 1, Aug. 24 & 25, lower Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fa - 2, Aug. 26, Cochrane Lake - SFJ, WHS

1980. Fc - 16, Oct. 18, Irricana - Steeves (1981)

[Snowy Plover *(Charadrius alexandrinus)*]

There is a hypothetical observation for the province listed below.

1975. Ev - 1, May 31, Beaverhill Lake - DID, ROS (Dekker 1975a; Weseloh 1977a)

Semipalmated Plover *(Charadrius semipalmatus)*

With one exception during the 1970's, this species arrived in southern Alberta between April 27 and May 7. This is almost identical to that reported by Sadler & Myres (1976) for the 1960's. The fall passage is more extended, starting in early July. Most birds leave the province by mid-September. There is an unusually late fall record in 1974 and an interesting spring peak for 1976.

Salt & Salt (1976) state that this species has not been recorded in the Rocky Mountains. The authors list four observations for the mountains in the late 1970's. Kershaw (1977), in a study of the migration records for the Edmonton area, found that 22% of the birds were recorded from the fourth week in April to the first week in June, and 75% were observed during the southward migration. Most birds were recorded during the last three weeks of July. Only 5% of the birds were observed during September.

A possible breeding record is reported for the Birch River delta in 1978 by Kuyt (1982). He also documents the first definite nesting of this species for the province in 1981 with nests, eggs and young near Grosbeak Lake, Wood Buffalo National Park. A review of the Prairie Nest Record Cards revealed that Kuyt found this species nesting again in 1985 at Grosbeak Lake.

1971. Fa - 1, July 25, Irricana - TSS
Fc - 2, Sept. 18, Calgary - VGL

1972. Sa - 4, April 30, Strathmore - CFNS
Sc - 1, May 27, Carseland - GEA, WEB, VGL
- 1, June 2, Cooking Lake - JIW
Fa - 1, June 29, Miquelon Lake - RIP, DVW
- 1, July 16, Mattoyekiu Lake - CAW
Fb - 7, Sept. 12, Keho Lake - VGL, DVW
Fc - 2, Sept. 23, Red Deer - KTM, MAM

1973. Sa/Sb - 15, April 28, Beaverhill Lake - LOG

Sc - 3, May 13, Beaverhill Lake - GWG, LOG
Eb - 1 adult, June 24, Shepard - WIH, BIL, VGL, BIM, RIP
Fa - 7, July 13, Beaverhill Lake - GWG, LOG
Fb - 45, July 21, Beaverhill Lake - GWG, LOG
- 10, Aug. 19, Delacour - HWP, BIR, CAR
Fc - 2, Sept. 9, Beaverhill Lake - GWG, LOG
1974. Sa - 1, May 3, Chestermere Lake - HAV
Sc - 1, May 13, Chestermere Lake - LIM, DVW
Fa - 1, June 27, Tyrrell Lake - BCM, RIP
Fb - 7, July 12, Tofield - DID
- 7, Sept. 14, Tofield - DID
Fc - 1, Oct. 14, Tofield - DID, JIW
1975. Sa - 2, April 30, Mildred Lake - Sharp & Richardson (1976)
Sc - May 13, Ft. MacKay area - Francis & Lumbis (1979)
Fa - 1, June 21, Gull Lake - JHA, MNM
- 1, June 28, Syncrude lease - Sharp & Richardson (1976)
- 1, July 6, Irricana - RUB
Fb - 27, July 19, Gull Lake - JHA
Fc - Sept. 8, Ft. MacKay area - Francis & Lumbis (1979)
1976. Sa - 1, April 17, Beaverhill Lake - MRB, DVW, LIW
Sb - 40, end of April, Beaverhill Lake - MRB, DVW, LIW
Sc - 3, May 30, Ft. McMurray - Gulley (1979)
Eb - 1, June 9, Beaverhill Lake - LUB, RIB
Fa - 1, June 19, Irricana - RUB
- 1, July 2, Balzac - RUB
Fb - 13, Aug. 1, Irricana - RUB
Fc - Sept. 21, Ft. McMurray - Gulley (1979)
1977. Sa - 4, April 28, Galahad - KAS
Sb - 22, May 7, Beaverhill Lake - DVW
Em - 1, May 16, Highwood Pass - DNB (Wiseley 1979a)
Fa - 1, July 24, Rock Island Lake - Höhn & Weseloh (1978)
Em/Fb - 7, Aug. 14, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 7 adults, Aug. 27, Irricana - RUB
Fc - 3, Oct. 2, Eagle Lake - JOD, PES
1978. Sa - 2, April 30, Strathmore - JOD, JMP
- May 10, Ft. McMurray - Gulley (1979)
Sb/Sc - 9, May 27/28, Grande Prairie - Wiseley (1979b)
Fa - 1, July 19, Little Fish Lake - JAS, MES
Fb - 25+, July 22, Beaverhill Lake - JAS, MES
- 50+, July 28, Vegreville - JAS, MES
Em - 1, Aug. 18, Merlin Lake, Banff N.P. - Holroyd & Van Tighem (1983)
F - 2 adults & 2 immatures, Aug. 24, Birch River delta - Kuyt (1982)
1979. Sa/Sb - 6, April 27, Delacour - RUB
Sc - 2, May 26/27, Calgary - Wiseley (1980a)
Fa - 3, Aug. 13, Chestermere Lake - ANS
Em - Aug. 25, Jasper Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 2 adults & 5 juveniles, Aug. 26, Cochrane - SFJ, WHS
Fc - 4, Sept. 15, Eagle Lake - EDQ
1980. Sc - 2, May 24/25, Edmonton - Wiseley (1981)
Fa - 1, Aug. 6, Calgary - ANS
Fb/Fc - 20, Sept. 30, Irricana - Steeves (1981)

Piping Plover *(Charadrius melodus)*

Piping Plovers are generally first reported in the spring on their nesting grounds in early May. Most birds leave the nesting lakes by the end of the first week in August (Wershler & Wallis 1987).

Definite nesting records during the decade were recorded at the following lakes: Goosequill, Miquelon, Dowling, Chain (near Hanna), Chappice and Gull. Wershler & Wallis (1987) state that typical breeding habitat is extensive sandy-gravelly beach on shores of saline lakes and large ponds. Water bodies less than 80 hectares are rarely used for nesting. Nest sites are located on older, unvegetated or sparsely vegetated backshore, while most feeding takes place along the water's edge.

Weseloh & Weseloh (1983) give the numbers and nest site characteristics of this species from 1974 to 1977 in the Dowling-Chain Lakes area. Wershler & Wallis (1987) report that in 1986 there were at least 288 adult Piping Plovers in Alberta, including at least 98 breeding pairs at a total of 28 different water bodies.

1972. Sa - 1, April 25, Chestermere Lake - GEA, WEB
S - 1, May 11, Janet - DVW
Eb - 1 adult, June 3, McGregor Lake - WIH, WGM, RIP
- 1 pair with nest of 4 eggs, June 15, Goosequill Lake - NGK, WWS (Kondla & Pinel 1973b)
- 4, June 22, Dowling Lake- BJJ, RIP, DVW

1973. S - 1, May 12, Beaverhill Lake - GWG, LOG
Eb - 3 adults, June, acted as if nesting, Namaka Lake - GEF. This site (which is small in area) was specifically checked in 1970-72 and 1974-75. The only birds observed were in 1973 (Weseloh & Weseloh 1983).

1974. Eb - 1 pair, throughout the summer, Little Fish Lake - Smith (1975)
- 5 adults, summer, Dowling Lake - Weseloh & Weseloh (1983)
B - 7 birds & 1 nest with 4 eggs, June 2, middle Miquelon Lake - REG, ARS
B/Eb - "nested at Miquelon Lake and probably also at Gull Lake and near Chauvin" - Wolford (1974b)
Eb - 3, July 3-5, Dillberry Lake - Renewable Resources Consulting Ltd. (1975)

1975. Eb - 7 adults, summer, Dowling Lake - Weseloh & Weseloh (1983)
B - seen 5 times including 6 adults & 2 young on July 19, Gull Lake - JHA, MNM

1976. Sa - 2, April 30, Dowling Lake - ROB, DVW, LIW
Eb - 6 adults & 2 nests with 4 eggs each, June 6, Dowling Lake - DVW, LIW
- 1 pair, June 6, 1.6 km northwest of Dowling Lake - DVW, LIW
B - 2, May 23, Beaverhill Lake - RIK
- June 12 & 19, Beaverhill Lake - DID, ROS
- 5 adults & 3 young, June 20, Miquelon Lake - REG
- 12 to 15 pairs, summer, Chain Lakes near Hanna - Weseloh & Weseloh (1983)
Eb - 2 adults, June 19 & July 2, Balzac - RUB
- 1 adult, June 25, Reesor Lake - BOF

1977. S - 3, May 8 & 14, Balzac - SEA, JMP
B - 1, May 15, Beaverhill Lake - TWT, DVW, LIW
Eb - 10 adults, summer, Dowling Lake - Weseloh & Weseloh (1983)

1978. Eb - 1 adult, July 8, Sam Lake - RUB
- 2 adults & 1 young, July 8, Chappice Lake - RUB

Killdeer *(Charadrius vociferus)*

Spring migrants arrive extremely early, usually singly or in twos or threes. During the 1970's, this species arrived in southern Alberta from early to mid-March. Francis & Lumbis (1979) give an arrival date for the Ft. MacKay area of April 12. During the fall passage, individuals linger into November and early December, and some birds even overwinter. There are winter records for Calgary, Jasper National Park, Wabamun Lake, Canmore, Banff National Park and Waterton Lakes National Park

1971. Sa - 1, March 14, Cheadle - ISS
- 4, March 14, Calgary - RIP
Sb - 25, April 6, Carseland - WWS
Fc - 6, Nov. 20, Calgary - ADB, CDB
1972. Sa - 7, March 9, Calgary - RIP
Sb - flock of 24, April 3, Calgary - HAV
B - 2 flocks totalling 80 birds, July 27, Elnora - WWS
Fb - 20+ adults, Sept. 4, Chestermere Lake - NGK
Fc - 1, Dec. 7, Calgary - HWP, CAR
1973. Sa - 1, March 11, Calgary - CFNS
- 1, March 17, Evansburg - KEH
Fc - 1, Dec. 16, Calgary - BIL
1974. Sa - 1, March 16, Carseland - RUB
- 1, March 16, Canmore - BRK, SCO
- 4, March 16, Aldersyde - GRW
Sb - 30, April 27, Rockyford - LIM, DVW
Fb - 50, Sept. 4, Calgary (along 30 yards of shoreline of Bow River) - BAD, BOD
Fc - 2, Nov. 23, Wabamun Lake - WAR, ERT
Ew - 3, Dec. 7, Jasper N.P. - BIK, LAP
W - 3, Dec. 29, Calgary - Christmas Bird Count
1975. Ew - 1, Jan. 5, Canmore - LIF, WIF
Sa - 1, March 1, Edmonton - NIP, WYR
Fc - Oct. 27, Syncrude lease - Sharp & Richardson (1976)
- 2, Nov. 6, Red Deer - RIP
- 1, Nov. 9, McGregor Lake - RUB
1976. Sa - 2, March 12, Calgary - GES
- April 7, Ft. McMurray - Gulley (1979)
Fb - 16, Oct. 31, Little Bow Lake - RUB
W - 1, Dec. 17, Calgary - HWP
- 1, Dec. 18, Wabamun Lake - Christmas Bird Count
Ew - 1, Dec. 9, Dardenelles, Waterton Lakes N.P. - KEB
- 1, Dec. 19, Banff - Christmas Bird Count
1977. Sa - 1, Feb. 26, Bottrel - JMP
B - 75, June 19, Frank Lake - RUB
Fc - Oct. 4, Ft. McMurray - Gulley (1979)
- 2, Oct. 24, Calgary - PES
Ew - 1, Dec. 17, Banff - Christmas Bird Count
1978. Sa - 1, Feb. 24, Turner Valley - GRW
Fc - 7, Nov. 9, Waterton Lakes N.P. - SIL
W - 4, Dec. 17, Calgary - Christmas Bird Count
1979. Sa - 1, March 10, Calgary - GRC
- 1, March 10, Nisku - DVP
Fc - 1, Dec. 1, Calgary - RUB
Ew - 1, Dec. 16, Banff - Christmas Bird Count
- 2, Dec. 30, Waterton Lakes N.P. - Christmas Bird Count
W - 2, Wabamun Lake - Smith & Prach (1980)
1980. Sa - 2, March 1, Waterton Lakes N.P. - WWS

Eb - 50, Sept. 4, Calgary - ANS

Mountain Plover *(Charadrius montanus)*

All observations of this species for the decade are listed below. In 1979, the first nesting of this species in Alberta and Canada was documented (Wallis & Loewen 1980; Wallis & Wershler 1981a). Wershler (1986) records nesting in 1980 in the same general area. Habitat in the known Alberta nesting locales is heavily grazed or recently burned and grazed mixed grassland.

1971. Ev - 2, July 5, Wildhorse - Salt & Salt (1976)
1977. Ev - 1 family group of 5, Sept. 30, Onefour area - WWS, CAW (Wallis & Wershler 1981a)
1979. Eb - 1 adult at a nest with 3 eggs, May 25, Onefour area - Wallis & Loewen (1980). This is the first nesting record for Canada. A total of 3 nest sites, including the above nest, were located in the Onefour area and birds were observed at them from May 25 to July 14 - Wallis & Wershler (1981a)
1980. Eb - at least 6 adults & 3 broods of young, June 20 & 21, Onefour area - CAW, CRW (Wershler 1986)

FAMILY: RECURVIROSTRIDAE

Black-necked Stilt *(Himantopus mexicanus)*

The third to eleventh records for the Black-necked Stilt in Alberta are listed below. The nesting records of 1977 at Beaverhill Lake and 1980 near New Dayton are the first and second for the province.

1972. Ev - 1, May 24, Irricana - CDB, KAH, WIH, WGM, DVW (Weseloh & McKay 1972; Pinel & Butot 1978)
1977. Eb - up to 4 adults with 2 nests of 4 & 7 eggs, May 1 to July 7, Beaverhill Lake - Bulmer (1977a), Bogaert (1979), Dekker et al. (1979)
Ev - 2 adults, May 3, St. Albert - Bogaert (1979), Dekker et al. (1979), Chapman et al. (1985)
Ev - 1 adult, May 11, Stirling Lake - ARS (Chapman et al. 1985)
1979. Ev - 1, July 8, Writing-on-Stone P.P. - DAE
1980. Ev - 1 adult, May 3, Beaverhill Lake - Gollop (1980a), Chapman et al. (1985)
- 1 adult, May 4, Calgary - Brooks (1980), Chapman et al. (1985)
- 1 adult, May 11, Airdrie - Gollop (1980a), Chapman et al. (1985)
Eb - 2 adults & 2 young, July 23, New Dayton - CHG (Chapman et al. 1985)

American Avocet *(Recurvirostra americana)*

The first spring migrants were recorded from April 6 to 21. In the fall, the species departed by late September or early October.

Francis & Lumbis (1979) record extralimital breeding in the Ft. MacKay area during 1977 and 1978. As far as the authors are aware, the first winter record for Alberta occurred in 1975. Kondla (1977a) gives an account of an unusual nest. Kondla & Pinel (1973a) outline the known nesting sites of the species in Alberta, and Kondla & Pinel (1978) analyze the clutch size of the American Avocet in the prairie provinces.

1971. Sa - 2, April 21, Shepard - DVW
Fc - 1, Sept. 27, Standard - NGK
1972. Sa - 2, April 10, Shepard - DVW
Sb - 45, April 22, Frank Lake - BIL, VGL
1973. Sa - 4, April 15, Connemara - BES, PES
Em/Eb - 3, May 25, Long Lake P.P. - Friesen & Schaafsma (1973)
Fc - 1, Oct. 7, Cheadle - SCO
1974. Sa - 1, April 16, Chestermere Lake - RUB
- 1, April 21, Tofield - DID
Fc - 11, Sept. 26, Alsask - LIM, DVW
1975. Sa - 1, April 18, Carseland - HWP, CAR
B - nest with 7 eggs, June 8, along Ribstone Creek near Czar - GRG
Fc - 1, Oct. 9, Frank Lake - RUB
W - 1, Dec. 26, Lethbridge - Christmas Bird Count (Lang 1976)
1976. Sa - 2, April 10, Connemara - HWP
Fc - 1, Sept. 26, Eagle Lake - ANS
1977. Sa - 1, April 16, Langdon - JOR
Sb - 76, April 23, Frank Lake - RUB
Em - 2, May 2 & 6, Ft. MacKay - Gulley (1983a)
Eb - 2 pairs, seen until the end of June, Birch Lake - Francis & Lumbis (1979)
- 2 clutches & 1 brood observed in spring, Ft. MacKay - Francis & Lumbis (1979)
Fc - 20, Oct. 2, Eagle Lake - JOD, PES
1978. Sa - 2, April 13, Strathmore - MIR
Eb - 5 adults & 1 brood of 2 young, summer, Ft. MacKay - Francis & Lumbis (1979)
Em - 1, Aug. 20, Ghost Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 21, Oct. 9, Milk River - RUB
1979. Sa - 1, April 6, Calgary - OLD
Fc - 11, Sept. 15, Shepard - ANS
1980. Sa - 2, April 18, Strathmore - TSS
Eb - 7, May 8 to June 24, Ft. McMurray - Gulley (1983a)
Fc - 8, Sept. 12, Shepard - ANS

FAMILY: SCOLOPACIDAE

Greater Yellowlegs *(Tringa melanoleuca)*

Greater Yellowlegs arrive in the first two weeks of April, with the last spring migrants generally observed in southern Alberta in mid-May. The fall movement can start as early as late June and July, with peak numbers usually recorded in August. The last birds leave the province during late October and early November.

An extralimital breeding record is indicated for the Bragg Creek area in 1972.

1971. Sa - 1, April 10, Calgary - BJJ
Sc - 1, May 8, Cochrane - SEA, DAG, RIP, KSC
Fa - 1, June 27, Rockyford - WIH
Fb - 35+, August 23, Elkwater - WWS
Fc - 1, Oct. 17, De Winton - CFNS

1972. Sa - 1, March 25, Carseland - BIL, VGL, WGM
Sb - 14, April 12, Calgary - WWS, CAW, CRW
Sc - 1, May 14, Millarville - GEA, WEB
Eb - 1 pair defending nesting territory, June 17, Bragg Creek - BIM
- 1, during breeding season, Chilver Lake - CAW, CRW
Fa - few, July 20, Calgary - CAW
Fb - 10+, Aug. 27, Frank Lake - CFNS
Fc - 2, Oct. 15, Carseland - HAV
- 1, Oct. 15, Indus - HWP, LIP
1973. Sa - 1, April 7, Brant - CFNS
Sb - 40, April 25, Strathmore - BIL, RIP
Sc - 2, May 6, Chestermere Lake - HWP, CAR
Fa - 2, July 6, Calgary - RUB
Fb - 65, Oct. 14, Beaverhill Lake - LOG
Fc - 14, Oct. 27, Beaverhill Lake - DID, LOG (Lang 1974a)
1974. Sa - 3, April 12, Namaka - RUB
- 3, April 12, Tofield - DID, JIW
Sc - 5, May 8, Kathyrn - RUB
Eb - 3, June 14, Cheadle - TSS
Fa - 2, July 13, Carseland - RUB
Fb - 45, Aug. 25, Tofield - RIP
Fc - 8, Nov. 2, Tofield - DID, ROS
1975. Sa - 1, April 14, Lunnford - BIL, VGL
- 2, April 18, Conrich - HWP, CAR
Sc - 2, May 10, Nanton - RUB, JIM
Fa - 18, July 6, Irricana - RUB
Fb - 42, Aug. 24, Irricana - RUB
Fc - Oct. 25, Ft. MacKay area - Francis & Lumbis (1979)
1976. Sa - 1, April 4, Beaverhill Lake - BRB, JER
Sc - 2, May 7, Chestermere Lake - RUB
Eb - 1, June 18, Boulton Creek - Salt (1976)
- 1, June 19, Irricana - RUB
Fb - 120, Aug. 7, Delacour - RUB
Fc - 1, Nov. 14, Beaverhill Lake - GRG, PAG
1977. Sa - 5, April 12, Galahad - KAS
- 1, April 12, Calgary - ADS, RKO
- April 12, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, April 21, Ft. MacKay - WWS
Sc - 1, May 4, Calgary - ADS, RKO
Fa - 2, June 25, Frank Lake - RUB
Fb - 120, Aug. 28, Milo - RUB
Fc - 1, Oct. 19, Calgary - JMP
1978. Sa - 1, April 11, Strathmore - MIR
Sc - 1, May 21, Beaverhill Lake - RUB
Fa - 1, July 1, Chestermere Lake - RUB
Fb - 100+, July 28, Vegreville - JAS, MES
Fc - 1, Oct. 17, Ft. McMurray - Gulley (1979)
- 1, Oct. 24, Calgary - RUB
- 1, Nov. 9, Waterton Lakes N.P. - SIL
1979. Sa - 1, April 13, Namaka Lake - WWS
Sc - 1, May 27 Conrich - RUB
Fa - 2, July 1, Irricana - RUB
Fb - 40, Aug. 11, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 1, Oct. 28, Carseland - ANS
1980. Sa - 2, April 13, Calgary to Rockyford - CFNS
Fa - 1, Aug. 18, Calgary - OLD

Fb - 50, Sept. 4, Calgary - ANS

Lesser Yellowlegs *(Tringa flavipes)*

Both Sadler & Myres (1976) and Salt & Salt (1976) indicate that this species is a late April migrant. During the 1970's, records indicate that Lesser Yellowlegs arrive between April 3 and 24. The last spring migrants have generally left southern Alberta by mid-May. An albino bird was reported during the 1975 spring migration.

In 1974, the species was found nesting near Cochrane and Stettler. Both of these areas are outside the known nesting range as depicted by Salt & Salt (1976).

The fall movement begins in late June and early July. High numbers of birds can be seen at larger water bodies from late July through September. The last fall birds are recorded during the last half of October in most years. These migration dates differ from those given by Salt & Salt (1976).

1971. Sa - 1, April 24, Chestermere Lake - SEA, KSC
- 15, April 24, Strathmore - ISS, TSS
Sc - 50, May 15, Beaverhill Lake - TSS
B - 2 young in nest depression, May 31, Elk Island N.P. - LOG
Eb - 1, June 9, Cypress Hills - WWS
Fa - 1, July 15, Calgary - BIL, VGL
Fb - 100+, Aug. 23, Elkwater - WWS
Fc - 6, Oct. 10, Calgary - HAV
1972. Sa - 1, April 3, Calgary - HAV
Sc - 3, May 13, Calgary - BIL, VGL
Eb - 1, June 17, Conrich - BIL, VGL
Fa - 30+, July 10, Delacour - VGL
Fb - 200, Sept. 26, Deadhorse Lake - Kondla et al. (1973)
Fc - 3, Oct. 22, Beaverhill Lake - DID, LOG
1973. Sa - 1, April 14, Tofield - GRG, LOG
- 1, April 15, Keoma - BAD, BOD
Sb - 215, May 5, Beaverhill Lake - GRG, LOG
Sc - 9, May 13, Mundare - GWG, LOG
Eb - 1, June 8, Cereal - GWG, LOG
Fa - 1, June 27, Namaka Lake - VGL
Fb - 160, Sept. 1, Beaverhill Lake - GWG, LOG
Fc - 2, Oct. 27, Beaverhill Lake - DID, LOG (Lang 1974a)
1974. Sa - 1, April 9, Aldersyde - GRW
- 1, April 12, Tofield - GWG, LOG, TWT
Sc - 1, May 19, Eagle Lake - RUB
Eb - 3, June 3, Chain Lakes P.P. - Crack & Danielson (1974c)
- 2, June 18, Cheadle - TSS
- 2 adults & 4 young, June 18, Stettler - LML (Houston & Houston 1974)
- 2 adults & 2 young, summer, Cochrane area - SFJ (Houston & Houston 1974)
Fa - 9, June 27, Cheadle - TSS
Fb - 50, July 29, Delacour - RUB
- 50, Aug. 7, Irricana - RUB
Fc - 3, Oct. 27, Tofield - DID
- 1, Nov. 18, Milk River Ridge Reservoir - ALW
1975. Sa - 2, April 19, Conrich - HWP

S - 1 near albino (nearly all white except flight feathers, yellow legs & pink bill), May 9, Tofield - DID
Sb - 100, May 4, Hay Lakes - EBC
Sc - 3, May 10, Calgary - ARG, MAG, CAO
Fa - 10+, July 1, Pakowki Lake - WWS, CAW
Fb - 100, July 12, Tofield - DID
Fc - Oct. 18, Syncrude lease - Sharp & Richardson (1976)
- 1, Oct. 31, Carseland - RUB
1976. Sa - 4, April 9, Carstairs - BIL
Sc - 16, May 7, Irricana - RUB
Fa - 9, June 19, Irricana - RUB
Fb - 100, Aug. 7, Delacour - RUB
Fc - 2, Oct. 19, Sieu Lake - HWP
1977. Sa - 1+, April 16, Beaverhill Lake - DVW, LIW
Sb - 100, April 20, Galahad - KAS
Sc - 1, May 14, Irricana - RUB
Fa - 19, June 25, Frank Lake - RUB, GOW, GRW
Fb - 40, Oct. 2, Eagle Lake - JOD, PES
Fc - Oct. 18, Ft. McMurray - Gulley (1979)
- 3, Nov. 7, Beaverhill Lake - ERW
1978. Sa - April 18, Ft. McMurray - Gulley (1979)
- 1, April 19, Bear Lake - ELC, GEC
Sb - 25, April 30, Crossfield - RUB
Sc - 1, May 22, Beaverhill Lake - RUB
Fa - 2, July 7, Pakowki Lake - RUB
Fb - 400+, July 28, Vegreville - JAS, MES
Fc - 7, Oct. 9, New Dayton - RUB
1979. Sa - 5, April 15, Shepard - ANS, MIR
Sb - 64, April 28, Chestermere Lake - DPD
Sc - 6, May 20, Altario - RUB
Fa - 2, July 2, Gem - RUB
Fc - 1, Oct. 20, Calgary - RKO, ADS
1980. Sa - 1, April 13, Calgary to Rockyford - CFNS
Fa - small flock, June 22, Pakowki Lake - CAW
Fb - 100, Aug. 9, Eagle Lake - ANS
- 100, Sept. 12, Shepard - ANS
Fc - 3, Sept. 26, Calgary - AAM

Solitary Sandpiper *(Tringa solitaria)*

Spring migrants arrive in late April and early May. As early as late June or early July, birds have left their breeding territories and started moving south. The main fall passage occurs in August, with the last birds observed between September 2 and 17 during this decade. During migration, this species seems less tolerant of alkaline water conditions than other shorebirds.

In a study of Solitary Sandpiper behavior at Crimson Lake Provincial Park, Oring (1973) concluded that large all-purpose territories were defended by males who identified the sex of an intruder by its behavior. Rival males fled or attacked; females indicated submission or remained passive. All copulations occurred at feeding ponds some distance from nesting areas.

1971. Sa - 1, May 8, Cochrane - SEA, DAG, KSC
Fa - 2, July 25, Cheadle - TSS
Fb - 150+, Aug. 23, Elkwater - WWS (counted as a steady stream of individuals and small flocks throughout the course of the night)

Fc - 2, Sept. 11, Calgary - HAV
1972. Sa - 1, April 30, Calgary - DEC, PYC
Sc - 1, May 19, Calgary - GEA, WEB, BIL, VGL
B - 4 adult pairs defending territories; believed that young were in the area, June 17, Bragg Creek - BIM
Fa - 1, July 10, Elnora - WWS
Fc - 3, Sept. 2, Okotoks - GEA, WEB, BIL
1973. Sa - 3, April 28, Sherwood Park - LOG
Sc - 1, May 27, Round Hill - GWG, LOG
Fa - 1, June 30, Del Bonita - GWG, LOG
- 2, July 2, Scapa - GWG, LOG
Fb - 10, Aug. 12, Calgary - WWS
Fc - 1, Sept. 16, Beaverhill Lake - GWG, LOG
1974. Sa - 5, April 28, Calgary - HWP, CAR
Sc - 1, May 24, Calgary - HWP
Fa - 1, July 2, Calgary - HWP
- 1, July 2, Lost River - WWS
Fc - 1, Sept. 7, Conrich - RUB, HWP
1975. Sa - 1, April 22, Calgary - BIL, HWP, CAR
Sc - 8-10, May 10, Calgary - ARG, MAG, CAO
Fa - 1, June 30, Calgary - DPD
- 4, June 30, Beaverhill Lake - REG
Fc - 1, Sept. 9, Calgary - HWP
1976. Sa - 7, April 27, Calgary - CAO, HWP, GES
Sc - 4, May 10, St. Albert - RAE
Fa - 1, July 25, Priddis - RUB, WIH
Fb - 9, Aug. 7, Irricana - RUB
Fc - 3, Sept. 12, Carseland - HWP
1977. Sa - 1, April 23, Blackie - RUB
- 1, May 3, Ft. MacKay area - WWS
Sc - 1, May 10, Calgary - HWP, JOR
Fb - 15, Aug. 11, Baker Creek, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 1, Sept. 17, Calgary - PES
- Sept. 17, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
1978. Sa - 1, April 29, Calgary - RUB
Sc - 1, May 28, Lethbridge area - Wiseley (1979b)
Fa - 1, Aug. 4, Kathyrn - RUB
Fc - 1, Sept. 4, Irricana - RUB
1979. Sa - 1, April 21, Calgary - ANS
Sc - 5, May 26/27, Lethbridge area - Wiseley (1980a)
Fa - 2, July 12, Douglas Creek near Bindloss - CAW, CRW
Fc - 3, Sept. 2, Arrowwood - RUB
1980. Fa - 1, July 18, Calgary - OLD
Fc - 1, Sept. 4, Calgary - HWP

Willet *(Catoptrophorus semipalmatus)*

Spring migrants arrive in southern Alberta between April 12 and 30. There are extralimital spring migration records for Rocky Mountain House and Ft. McMurray, and an extralimital summer record for Ft. McMurray. Most birds have left the province by the end of August, but stragglers persist some years until mid-October.

Dekker (1976b) observed a Willet feeding on a brook stickleback *(Culaea inconstans)* at Beaverhill Lake.

1971. Sa - 1, April 29, Janet - DVW
Fc - 2, Aug. 28, Frank Lake - BIL, VGL
- 1, Aug. 28, Irricana - DVW
1972. Sa - 1, April 26, Chestermere Lake - WEB
- 1, April 26, Janet - DVW
Fc - 8, Aug. 27, Frank Lake - CFNS
1973. Sa - 1, April 25, Irricana - BIL, VGL, RIP
- 5, April 25, Strathmore - WWS
Fc - 7, Oct. 15, High River - DPD
1974. Sa - 3, April 24, Beaverhill Lake - LOG
- 1, April 25, Norfolk - HWP, CAR
Eb - 1, June 8, Dunstable - BIL, VGL
Fc - 1, Oct. 12, Tofield - MAM, PAM
1975. Sa - 1, April 26, Tofield - DID
- 1, April 26, Connemara - BIL, HWP
Sa/Em - 1, April 26, Rocky Mountain House - BLM
Fc - 1, Sept. 12, Irricana - RUB
1976. Sa - 1, April 23, Irricana - RUB
- 5, April 24, Beaverhill Lake - DVW, LIW
Em - 1, May 25, Ft. McMurray - Gulley (1983a)
Fc - 2, Aug. 29, Langdon - HWP
1977. Sa - 1, April 12, Galahad - KAS
1978. Sa - 2, April 28, Beaverhill Lake - JAG, RAG
- 1, April 29, Strathmore - RUB
Fc - 1, Oct. 7, Brooks - RUB
1979. Sa - 1, April 20, Namaka Lake - RUB
1980. Sa - 2, April 30, Chancellor - GLH
Eb - 4, July 14, Ft. McMurray - Gulley (1983a)

Wandering Tattler *(Heteroscelus incanus)*

There are two records for the decade, the sixth and seventh for the province. Höhn (1974) points out that the 1973 record is the furthest east for the province and represents the most birds ever recorded for the province. There is a vague report of one bird "near the British Columbia-Alberta border west of Banff" for the fall of 1960 (Audubon Field Notes 15(1):59-61).

1973. Ev - 4, Sept. 2, Beaverhill Lake - Höhn (1974)
1974. Ev - 1, July 25, Cheadle - TSS

Spotted Sandpiper *(Actitis macularia)*

The first spring migrants usually arrive between May 2 and 10. This contrasts with Salt & Salt (1976) who state "Spotted Sandpipers arrive towards the end of April, and by early May are along the shorelines of every river and lake." Most birds have left on their southward migration by the end of the first week in September, but a few individuals linger. The last fall records for this decade range from September 9 to October 16.

1971. Sa - 15, May 2, Calgary - JOP
Sb - flock of 17, May 27, Reesor Lake - WWS
Fc - 1, Oct. 16, Calgary - RIP
1972. Sa - 1, May 10, Calgary - BIL, VGL
- 4, May 10, Miquelon Lake - WWS
Fc - 1, Oct. 9, Cochrane Lake - WWS, CAW, CRW, RAW
1973. Sa - 1, May 9, Calgary - HAB

Fc - 2, Oct. 2, Jasper N.P. - BEB, GEB
1974. Sa - 2, May 8, Pinhorn Grazing Reserve - WWS
- 1, May 9, Rockyford - LIM, DVW
Fc - 1, Sept. 20, Calgary - HWP
1975. Sa - 2, May 4, Sherwood Park - RIC
- 1, May 5, Peace River - RIP
- May 12, Mildred Lake - Sharp & Richardson (1976)
Fc - 1, Sept. 9, Calgary - HWP
- Sept. 20, Ft. MacKay area - Francis & Lumbis (1979)
1976. Sa - 2, May 3, Panther River, Banff N.P. - BIL
Fc - 1, Sept. 14, Calgary - HWP
1977. Sa - 5, May 3, Wembley - MCL
- May 5, Banff N.P. - Holroyd & Gartshore (1978)
- May 9, Ft. McMurray - Gulley (1979)
Fc - 1, Sept. 13, Calgary - JMP
- Sept. 13, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
1978. Sa - 1, May 3, Calgary - JMP
- May 9, Ft. McMurray - Gulley (1979)
Fc - Sept. 22, Ft. McMurray - Gulley (1979)
1979. Sa - 1, April 22, Calgary - RUB
Fc - 1, Sept. 9, Calgary - HWP
1980. Sa - May 6, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
- 2, May 10, Travers Reservoir - HWP
Fc - 1, Sept. 26, Calgary - OLD

Upland Sandpiper *(Bartramia longicauda)*

During this decade the first Upland Sandpiper arrivals in Alberta were between May 2 and 19.

This species is a regular breeder in Alberta's native grasslands, but nesting distribution in northern Alberta is extremely local. This contrasts with the more extensive range depicted in Salt & Salt (1976). In 1972, this species was observed during the nesting season in Waterton Lakes National Park (Sharp 1973). In 1977, breeding is indicated for the Grande Prairie area. Upland Sandpipers have disappeared from some areas of the province, and may have decreased over much of Alberta.

Fall records are few, but they indicate that most birds have left the province by late August or early September. A notable exception is the 1975 fall record from the Ft. MacKay area. There are two fall migration records for the mountains.

1971. Sa - 2, May 8, Balzac - ROL, DVW
Fb/Fc - 15+, Aug. 23, Elkwater - WWS
1972. Sa - 3, May 13, Brooks - BIL, VGL
Eb - 1, June & July - Waterton Lakes N.P. - Sharp (1973)
Fc - 2, Aug. 29, Edmonton - WWS
1973. Sa - 1, May 2, Namaka Lake - WWS, CAW
B - 1, July 23, Winagami Lake - WWS
- 1 adult & 2 young, Aug. 22, McGregor Lake - RUB
1974. Sa - 1, May 5, Irricana - TSS
B - 7 adults, July 29, Sherburne Lake - GRW
Fc - 1, Aug. 24, Ft. Saskatchewan - RIP
1975. Sa - 1, May 4, Chestermere Lake - BIL
B - 3, May 31, Syncrude lease - Sharp & Richardson (1976)

- 1 adult on nest with 1 egg, June 26, Norfolk - HWP
- 1 adult behaving as if it had young nearby, Aug. 24, Dalroy - RUB

Fc - 4, Sept. 26, Syncrude lease - Sharp & Richardson (1976)
1976. Sa - 1, May 2, Hand Hills - WWS, CAW
B - 8, June 14, Spondin - REG
1977. Sa - 1, May 7, Eagle Lake - HWP, JOR
Eb - 2, June 13, Grande Prairie - BEW (scolded & harassed observer)
Em - 2, Aug. 20, Banff N.P. - Holroyd & Gartshore (1978)
Fc - 1, Sept. 4, Beaverhill Lake - Thormin (1977)
- 1, Sept. 6, Grande Prairie - ELC, GEC

1978. F - 1, Aug. 21, Saskatoon Lake - ELC, GEC
Fc - Aug. 28, Ft. McMurray - Gulley (1979)
1979. Sa - 1, May 18, Pincher Creek - WWS
Em/Fc - 1, Aug. 25, Jasper N.P. - Holroyd & Van Tighem (1983)
1980. Sa - May 19, Frank Lake - DAE

Eskimo Curlew *(Numenius borealis)*

No observations have been reported for this decade.

Salt & Salt (1976) state: "Although it is very likely that the Eskimo Curlew was a transient through the province, there is no material evidence of its occurrence in Alberta." However, in the review of some 600 papers, Gollop et al. (1986) uncovered the existence of two specimens from Alberta. The first was one bird from the Rocky Mountains near Jasper sometime between April 6 and June 15, 1826. The second bird was one male from near Calgary on May 19, 1890. This review shows that during the period of Eskimo Curlew abundance (up to the 1880's), it occurred in Alberta as a "regular common" spring migrant in the north and as a "rare" spring migrant in the south.

Whimbrel *(Numenius phaeopus)*

There are many more records for this species during this decade than in the previous one. The Whimbrel is essentially a spring passage migrant in Alberta with all records from May 5 to 31. Unusually high numbers were recorded at Tofield in 1975 and Raymond in 1979. The first fall migrant record for the province was reported in 1980.

1971. Sa/Sb - 6, May 7, Cheadle - ISS
1972. Sa - 1, May 9, Calgary - MAS
Sc - 1, May 26, Calgary - DVW
1973. Sa - 1, May 12, Lake Newell - CFNS
S - 3, May 16, Lake Newell - VGL, CAR
Sc - 1, May 22, Beaverhill Lake - DID
1974. Sa/Sb - 12, May 5, Cheadle - TSS
1975. Sa - 4, May 20, Chestermere Lake - JOD, KSC
Sb - 38, May 21, Tofield - DID, ROS
S - 1, May 30, Mildred Lake - Francis & Lumbis (1979)
Sc - 4, May 31, Tofield - DID, ROS
1976. Sa - 1, May 12, Beaverhill Lake - TWT, ALW
S - 3, May 20, Suffield (C.F.B.) - Karasiuk (1976b)
1978. Sa - 1, May 6, Conrich - HWP, JOR (Butot 1978c)
Sb - 22, May 16, Beaverhill Lake - DID
Em - 3, May 27, Bear Lake - ELC, GEC
Sc - 1, June 4, Beaverhill Lake - DID

1979. Sa/Sb - 264, May 13, Raymond - ARS, BRT (Gollop 1979b)
Sb - 60, May 14, Raymond - ARS, BRT (Gollop 1979b)
S - 2, May 22, Calgary - JOT
- 1, May 26/27, Lethbridge area - Wiseley (1980a)
Em/Sc - 1, May 29, Bottrel - SFJ
1980. S - 1, May 24/25, Edmonton area - Wiseley (1981)
Sc - 1, May 30, Ft. McMurray area - Gulley (1983a)
F - 1, Aug. 24, Ft. McMurray area - Gulley (1983a)

Long-billed Curlew *(Numenius americanus)*

This species arrives in southern Alberta between April 15 and 24. In mid-August flocks of Long-billed Curlews may be seen, but by the end of the month, they have left the province. The latest fall record for the decade is September 2.

1971. Sa - 2, April 19, Strathmore - ISS
Fc - 9, Sept. 2, Irricana - DVW
1972. Sa - 1, April 17, Cheadle - ISS
Fc - 7, Aug. 27, Frank Lake - CFNS
1973. Sa - 5, April 21, Patricia - EDB, EGB
Eb - 1, May 11, Glenbow Lake - MTM
Fb/Fc - 19, Aug. 22, Brant - RUB
1974. Sa - 1, April 17, Lethbridge - KAR
- 1, April 17, Namaka Lake - LIM, DVW
B - 30+, June 26, Writing-on-Stone P.P. - BCM, RIP
1975. Sa - 1, April 21, Calgary - KAM
1976. Sa - 2, April 16, Cheadle - TSS
1977. Sa - 2, April 20, Rosebud - HWP, JOR
1978. Em/Sa - 1, April 22, Dogpound - JMP
Eb - 2, May 19, Beaverhill Lake - DID
B - 103, May 28, Lethbridge area - Wiseley (1979b)
Fb - 50, mid-Aug., Lake Newell - Butot (1978d)
1979. Sa - 1, April 15, Cheadle - TSS
B - 52, May 26/27, Lethbridge area - Wiseley (1980a)
1980. Sa - 1, April 15, Cheadle - TSS
Eb - 1, May 3, Bison Paddock, Waterton Lakes N.P. - TEH

Hudsonian Godwit *(Limosa haemastica)*

Spring migration for this species during the decade ranged from April 23 to June 2, with peaks occurring in late April and early May. Exceptional numbers for Alberta were seen at Beaverhill Lake in 1973 and 1980. Although rarely recorded in the fall, there were an outstanding sixteen observations during the 1970's. Even more unusual were flocks of 25+ birds recorded for the fall passages of 1973, 1974 and 1975.

A significant observation not recorded in Sadler & Myres (1976) for the 1960's is 56 birds seen on April 28, 1964 at Beaverhill Lake by ETJ. There is an exceptional record of 300 birds observed on April 28, 1958 near New Norway (Höhn et al. 1959).

1971. Sc - 1, May 15, Beaverhill Lake - TSS
1972. Sc - 3, May 9, Calgary - MAS (Butot 1976e)
1973. Sa/Sb - 52, April 28-30, Beaverhill Lake - LOG (Renaud 1973)
Sa - 1, April 29, Conrich - VGL, HWP, CAR

- 1, May 5, Beaumont - ETJ
Sc - 1, May 22, Tofield - DID
Fb - 27, July 29, Tofield - DID
Fc - 1, Sept. 15, Tofield - DID
1974. Sa - 2, April 27, Rockyford - LIM, RIP, DVW
- 7, April 28, Tofield - GWG, LOG
Fa/Fb - 25, July 12, Tofield - DID (Houston & Houston 1975)
Fc - 4, Sept. 8-24, Beaverhill Lake - RIP, JIW (Houston & Houston 1975)
1975. Sa - 1, April 26, Norfolk - RUB
Sa-Sc - up to 12, April 26 to May 9, Tofield - DID
Sc - 1, May 8, Syncrude lease - Sharp & Richardson (1976)
Fa - 3, July 12, Tofield - BEB, GEB, JIW
Fb - 25, Aug. 3, Tofield - BEB, GEB, JIW
F - 1, Sept. 2, Syncrude lease - Sharp & Richardson (1976)
Fc - 1, Sept. 24, Beaverhill Lake - DVW
1976. Sa - 6, April 23, Irricana - RUB
Sb - 12, April 25, Irricana - Butot (1976c)
Sc - 1, May 20, Suffield (C.F.B.) - Karasiuk (1976b)
Fa - 7, July 24, Vermilion - WCH, SML
Fc - 2, Sept. 24, McGregor Lake - RUB
- Sept. 28, Ft. McMurray - Gulley (1979)
- 1, Oct. 19, Sieu Lake - HWP
1977. Sa - 2, April 26, Galahad - KAS
Sb - 11, April 28, Galahad - KAS
Fc - 8, Oct. 10, Beaverhill Lake - ALW
1978. Sa - 3, April 25, Beaverhill Lake - DID
- 6, April 30, Keoma - JOD, JMP
Sb - 23, May 1, Beaverhill Lake - DID
Sc - 1, May 19, Beaverhill Lake - DID
- May 25, Ft. McMurray - Gulley (1979)
Fa - 6, June 24, Beaverhill Lake - DID
Fb - 12, July 8, Beaverhill Lake - DID
F - 3, July 31, Sask.-Alta. border on #9 highway - JAS, MES
1979. S - 1, May 8, Edmonton - Sherrington (1980)
Em/Sc - 1, June 2, Deep Lake near Wembley - ELC, GEC
1980. Sa/Sb - 22, April 30, Beaverhill Lake - ETJ
S - 1, May 10, Gayford - DAE
Sc - 1, May 31/June 1, Lethbridge area - Wiseley (1981)

Marbled Godwit *(Limosa fedoa)*

The first spring migrants were recorded from April 19 to 24. In some springs, large flocks can be observed during migration as exemplified in 1976 and 1977. Large post-breeding aggregations can be observed during July. Few birds remain after August, but stragglers are recorded as late as mid-October.

Dekker (1976b) reports unusual feeding on brook sticklebacks *(Culaea inconstans)* at Beaverhill Lake by this species.

1971. Sa - 1, April 24, Langdon - SEA, KSC
B - 47, June 15, Janet - DVW
- 100+, July 23, Brooks - WWS
Fc - 1, Sept. 18, Calgary - BIL, VGL
1972. Sa - 1, April 21, Frank Lake - VGL, RIP
B - 189, July 9, Shepard - WIH, WGM
- 100+, July 22, Lake Newell - GEA, WEB

Fc - 1, Oct. 14, Beaverhill Lake - LOG
1973. Sa - 2, April 24, Irricana - VGL
- 1, April 24, Tofield - DID
B - 400, July 11, Delacour - RUB
Fc - 2, Sept. 23, Bassano - CFNS
1974. Sa - 2, April 23, Shepard - DPD
- 2, April 24, Beaverhill Lake - DID
Fc - "brace", Oct. 4, Tofield - JIW
1975. Sa - 1, April 24, Frank Lake - HWP, CAR
- 1, April 25, Tofield - DID
B - 160, July 10, Delacour - RUB
Fc - 3, Sept. 11, Beaverhill Lake - MRB, DVW
- 1, Sept. 14, Irricana - RUB
1976. Sa - 2, April 23, Irricana - RUB
Sb - 135, May 7, Irricana - RUB
B - 500+, July 4, Brant - RUB
Fc - 3, Sept. 24, McGregor Lake - RUB
1977. Sa - 2, April 22, Kathyrn - RUB
- 1, April 22, Strathmore - ELH, JOH
Sb - 210, April 30, Frank Lake - RUB
B - 200, June 25, Frank Lake - RUB
- 600, July 9, Stirling - Butot (1977d)
1978. Sa - 1, April 22, Chestermere Lake - JOR
Fc - 1, Oct. 12, Balzac - CAO
1979. Sa - 4, April 27, Irricana - RUB
Fc - 5, Sept. 9, Eagle Lake - HWP
1980. Sa - 1, April 19, Cheadle - TSS
B - 1,500, July 9, Stirling - Gollop (1980b)
Fc - 4, Sept. 12, Knights Lake, Waterton Lakes N.P. - TEH

Ruddy Turnstone ***(Arenaria interpres)***

Spring migration occurs during May. In most instances, the birds are seen singly or in small numbers. Higher numbers were seen in the springs of 1978 and 1979 at Beaverhill Lake.

Fewer birds are observed during the fall passage from August 12 to October 13. Beaverhill Lake appears to be the prime stopover location for this species in Alberta. Interesting localities reported for the fall migration include Water Valley in 1975 and Bow Lake, Banff National Park in 1979, the latter being the first record for the mountains.

1971. Sc - 6, May 28, Miquelon Lake - TSS
- 10, May 28, Beaverhill Lake - TSS
Fa - 1, Aug. 23, Calgary - RIP, DAS
1972. Sa - 5, May 12, Miquelon Lake - WWS
Sc - 4, May 25, Rockyford - JEC
Fa - 1, Aug. 18, Shepard - BJJ, BIL, DVW
1973. Sa - 1, May 12, Beaverhill Lake - GWG, LOG
Sb - 14, May 20, Miquelon Lake - BIL, VGL
- 17, May 20, Beaverhill Lake - GWG, LOG
S - 6, May 27, Buffalo Lake - GWG, LOG
Sc - 7, June 2, Miquelon Lake - LOG
Fa - 5, Sept. 8, Beaverhill Lake - LOG
Fc - 1, Oct. 13, Beaverhill Lake - DID (Lang 1974a)
1974. Sa - 1, May 3, Chestermere Lake - HAV
Sc - 2, May 25, Beaverhill Lake - DID, JIW

Fc - 1, Sept. 24, Beaverhill Lake - DID, JIW
1975. S - 1, May 25, Syncrude lease - Sharp & Richardson (1976)
Sc - May 31, Beaverhill Lake - DID, ROS
Em/Fa - 1, Aug. 18, Water Valley - Johnston (1976b)
Fc - 2, Sept. 4, Syncrude lease - Sharp & Richardson (1976)
- 1, Sept. 6, Eagle Lake - HWP
- 2, Sept. 11, Beaverhill Lake - MRB, DVW
1976. Sc - 1, May 29, Edmonton - Weseloh (1976a)
Fa - 2, Aug. 12, Lac la Biche - CRW, RAW
1977. Sa - 1, May 12, Lake Newell - Nordstrom (1977)
Sb - 34, May 15, Beaverhill Lake - DRG, TWT, DVW, LIW
Sc - 1+, May 28/29, Edmonton area - Wiseley (1979b)
Fa - 1, Aug. 16, Calgary - Butot (1977d)
F - Aug. 23, Ft. McMurray - Gulley (1979)
1978. Sb - 30+, May 22, Beaverhill Lake - RUB, ERT, TEW
- 60+, May 23, Beaverhill Lake - RUB
Sc - 1, May 30, Ft. McMurray - BRW
1979. Sa - 15, May 18, Beaverhill Lake - RUB
Sb - 25, May 19, Beaverhill Lake - RUB
S - 4, May 21, Buffalo Lake - JOR
Sc - 6, May26/27, Edmonton area - Wiseley (1980a)
Em/Fa - 1, Aug. 14, Bow Lake, Banff N.P. - Holroyd (1981b)
1980. Sa - 4, May 18, Buffalo Lake - JOR
Sb - 40, May 24/25, Edmonton area - Wiseley (1981)

Surfbird ***(Aphriza virgata)***

The first verified record for Alberta is listed below.

1975. Ev - 1 photographed, Sept. 21 & 22, Beaverhill Lake - RIK (Weseloh 1977a)

Red Knot ***(Calidris canutus)***

The Red Knot is recorded during spring migration from May 10 to June 3, the highest numbers being observed at Beaverhill Lake. There are far fewer fall records and they are scattered from July 22 to September 22, with most observations after mid-August. There are no migration records for the mountains.

1971. S - 3, May 28, Beaverhill Lake - TSS
1972. Sa - 20, May 13, Beaverhill Lake - Houston (1972c)
S - 3, May 22, Frank Lake - GEA, WEB, BIL, VGL
- 2, May 24, Irricana - DVW
1973. Sa - 10, May 10, Beaverhill Lake - JIW
Sb - 100, May 21, Beaverhill Lake - GWG, LOG (Renaud 1973)
Sc - 5, June 3, Whitford Lake - GWG, LOG
Fb - 50, Aug. 19, Beaverhill Lake - JIW
F - 3, Aug. 26, Carseland - IRH
1974. S - 3, May 26, Tofield - GWG, LOG
F - 15, Sept. 22, Edmonton - BEB, GEB
1975. Sa - 30, May 17-25, Tofield - EBC
Sb/Sc - 100, May 31, Tofield - DID, ROS
1976. S - 1, May 29, Edmonton - Weseloh (1976a)
F - 3, Sept. 16-19, Beaverhill Lake - EBC (Serr 1977a)
1977. Sa - 1, May 10, Beaverhill Lake - PMA specimen

- several, May 12, Lake Newell - Nordstrom (1977)
Sb - 52, May 15, Beaverhill Lake - DRG, TWT, DVW, LIW
Sc - 1+, May 29/30, Edmonton area - Wiseley (1979b)
- 2, May 29, Lethbridge area - Wiseley (1979b)
F - 6, Sept. 10, Beaverhill Lake - ALW
1978. S - 30+, May 22, Beaverhill Lake - RUB, ERT, TEW
Sb - 60+, May 23, Beaverhill Lake - RUB
Em/Sc - 4, May 28, Bear Lake - ELC, GEC
Fa - 4, July 22, Beaverhill Lake - JAS, MES
1979. Sa - 1, May 18, Beaverhill Lake - RUB
Sc - 8, May 26/27, Edmonton area - Wiseley (1980a)
1980. Sa - 1, May 10, Chestermere Lake - JOR
Sb/Sc - 100, May 24/25, Edmonton area - Wiseley (1981)
F - 4, Aug. 24, Dowling Lake - PES

Sanderling *(Calidris alba)*

Spring migrants pass through Alberta from April 30 to June 10 with peak numbers in late May. The first southbound migrants may be seen in July. In some years, the last migrants do not leave the province until mid to late October.

There are five fall migration records for the mountains; two for Jasper National Park, one for Banff National Park and two for the Kananaskis area.

1971. Sb - 3,000-5,000, May 28, Miquelon Lake - TSS
Em - 1, Aug. 8, Highwood Pass - CFNS
Fb - 90-100, Aug. 8, Frank Lake - BIL, VGL
1972. Sa - 1, April 30, Strathmore - TSS
- 3, May 11, Miquelon Lake - WWS
Sb - 40, May 28, Deadhorse Lake - WWS, CAW, CRW
Sc - 2, June 3, McGregor Lake - WIH, WGM, RIP
Fa - 15, Aug. 13, Deadhorse Lake - WWS, CAW, CRW
Fb - 200, Sept. 26, Deadhorse Lake - Kondla et al. (1973)
Fc - 12, Oct. 22, Beaverhill Lake - DID, LOG
1973. Sa - 1, May 12, Tofield - GWG, LOG
Sb - 100, May 26, Buffalo Lake - LOG, JAP
Sc - 2, June 10, Winagami Lake - WWS
Fa - 4, July 3, Winagami Lake - WWS
- 2, July 13, Buffalo Lake - JIW
Fb - 75, July 21, Beaverhill Lake - GWG, LOG
Fc - 3, Oct. 13, Beaverhill Lake - DID
1974. Sa - 2, May 11, Cheadle - TSS
Sb - 52, May 24, Chestermere Lake - HAV
Sc - 1, June 1, Cheadle - TSS
Fa - few, July 17, Gull Lake - JHA
Fc - 1, Oct. 12, Tofield - DID
1975. Sa - few, May 4, Looma - HOH
Sc - 1, May 27, Cold Lake - GRG, PAG, MAH
Fa - 2, July 19, Gull Lake - JHA
Em - 3, Aug. 7, Desolation Plain (at 2,500 m), Banff N.P. - GEH (Weseloh 1977a)
Fb - 75, Sept. 13, Eagle Lake - RUB
Fc - 4, Oct. 5, Eagle Lake - RUB
1976. Sa - 35, May 12, Beaverhill Lake - TWT, ALW
- May 25, Ft. McMurray - Gulley (1979)
Sb - 100, May 27, Beaverhill Lake - MAM, PAM

Fa - several, July 16, Lake Claire - JOK
Em - 1, Aug. 24, Boulton Creek - Salt (1976)
Fc - 5, Oct. 31, Little Bow Lake - RUB
1977. Sa - 8, May 15, Beaverhill Lake - DRG, TWT, DVW, LIW
Fa - 1, July 13, Irricana - Butot (1977d)
Fc - 2, Oct. 16, Eagle Lake - PES
1978. Sa - 12, May 21, Beaverhill Lake - RUB
Sb - 1,000+, May 23, Beaverhill Lake - RUB
Sc - 200, May 27/28, Edmonton area - Wiseley (1979b)
Fa - 3, July 22, Beaverhill Lake - JAS, MES
Em - 1, Sept. 19, Jasper Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
1979. Sa - 20, May 10, Kiever's Lake - KEM, LLM
Fa - 1, Aug. 26, Cochrane Lake - SFJ, WHS
Fc - 1, Sept. 22, McGregor Lake - CLH, DES
1980. Sa - 10+, May 18, Buffalo Lake - JOR
Em - 1, Aug. 10-13, Wabasso Lake, Jasper N.P. - Holroyd & Van Tighem (1983)

Semipalmated Sandpiper *(Calidris pusilla)*

The first spring migrants arrive in southern Alberta in the last half of April. Francis & Lumbis (1979) give a spring arrival date of May 8 for the Ft. MacKay area. This species has generally left the province on its northward migration by the end of May. The first spring arrival dates are much earlier than those indicated by Sadler & Myres (1976) and Salt & Salt (1976). Holroyd & Van Tighem (1983) list only three spring records for Banff and Jasper National Parks: two reported below for this decade and one from 1891.

The first fall migrants generally appear in July. In most years, the species has left the province by mid-September, but stragglers were recorded to mid-October in 1973, 1975 and 1980.

In spring and fall, the Semipalmated Sandpiper is the most common "peep" in Alberta.

1971. Sa - 15, May 1, Strathmore - ISS, TSS
Fa - 10, July 25, Strathmore - TSS
Fc - 1, Aug. 26, Calgary - RIP, DAS
1972. Sa - 8, April 27, Chestermere Lake - WWS
Sb - 98+, May 7, Strathmore & Chancellor - WWS, CAW
Sc - 8+, May 27, Standard - HWP, LIP
Fb - 600+, Aug. 13, Deadhorse Lake - WWS, CAW, CRW, RAW
Fc - 4, Sept. 24, Beaverhill Lake - LOG
1973. Sa - 15, April 24, Chestermere Lake - BIL, VGL
Sc - 8, May 27, Beaverhill Lake - DID, LOG
Fa - 2, July 7, Beaverhill Lake - DID
- 16, July 8, Brazeau Reservoir - GWG, LOG
Fb - 100+, Aug. 15, Calgary - WWS, CAW
Fc - 1, Oct. 14, Miquelon Lake - MAM, PAM
1974. Sa - 6, April 18, Chestermere Lake - HAV
Sb - 100, May 20, Shepard - WIH, WGM
Sc - 2, June 1, Cheadle - TSS
Fa - 1, June 27, Tyrrell Lake - BCM, RIP
- 1, July 6, Cheadle - TSS
Fb - 125, July 9, Little Fish Lake - WWS

Fc - 2, Sept. 14, Cheadle - TSS
1975. Sa - 27, April 24, Frank Lake - HWP, CAR
Em - 1, May 15, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Sb - 150, May 24, Delacour - RUB
Sc - 100, May 31, Tofield - DID, ROS
Fa - July 2, Ft. MacKay area - Francis & Lumbis (1979)
- 1, July 12, Cheadle - TSS
Fc - 2, Oct. 9, Frank Lake - RUB
1976. Sa - 6, April 23, Irricana - RUB
- 3, April 24, Beaverhill Lake - DVW, LIW
Em - 2, May 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Sc - 1, June 4, Pinehurst Lake - WWS, CAW
Fa - 10, July 17, Hussar - JOD
Fa/Fb - 100, July 17, Balzac - RUB
Fc - 1, Sept. 11, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
1977. Sa - 1, April 23, Irricana - RUB
- 2, April 23, Frank Lake - RUB
Sb - 180, May 14, Delacour - RUB
Sc - 19, May 23, Keoma - RUB
Fa - 1, July 2, Sounding Lake - RUB
Fc - Sept. 8, Ft. McMurray - Gulley (1979)
- Sept. 17, Pocahontas Pond, Jasper N.P. - Holroyd & Van Tighem (1983)
1978. Sa - 8, April 29, Chestermere Lake - RUB
Sb - 200+, May 22, Beaverhill Lake - RUB
Sc - 2, May 24, Castor - RUB
- 25, May 24, Bear Lake - ELC, GEC
Fa - 16, July 8, Sam Lake - RUB
Fb - 200, July 28, Vegreville - JAS, MES
Fc - 10, Aug. 24, McGregor Lake - JAS, MES
1979. Sa - 8, April 27, Delacour - RUB
Sb - 1,000+, May 21, Dowling Lake - RUB
Sc - 102, May 27, Conrich - RUB
Fa - 30, July 15, Conrich - RUB
Fc - 3, Sept. 9, Namaka Lake - HWP
1980. Sa - 1, April 29, Cheadle - TSS
Sb/Sc - 736, May 24/25, Calgary area - Wiseley (1981)
Fa - 1, Aug. 6, Calgary - ANS
Fc - 2, Oct. 13, Wigmore Lake, Banff N.P. - Holroyd & Van Tighem (1983)

Western Sandpiper *(Calidris mauri)*

The first authenticated record of this species for Alberta was in August of 1972 (Palindat et al. 1973). There was an explosion of reports of this species in the 1970's compared to previous decades. There were records for every year of the decade. Previous to the decade, there were three reports including the first in May of 1959 (Salt & Beacham 1960; Höhn et al. 1961).

Salt & Salt (1976) refer in error to the 1971 report as April 1 and the first 1973 record as June 8 to 10. This species is almost exclusively seen in the fall, particularly August. However, there are three spring records.

1971. Ev - 1, May 1, Strathmore - ISS, TSS (Pinel & Butot 1978)

1972. Ev - 1, Aug. 16 & 17, Shepard - GEA, WEB, RUJ, HAV, DVW (Palindat et al. 1973; Pinel & Butot 1978)
- 2, Aug. 18, Shepard - BJJ, BIL, DVW (Palindat et al. 1973; Pinel & Butot 1978); one of these birds was collected. This was the first substantiated record for Alberta.

1973. Ev - 2, July 8-10 (photographed), Sturgeon Lake - KVT, CAW (Salt & Salt 1976)
- 1, July 24, Winagami Lake - WWS
- 1, Aug. 4 (photographed), Sturgeon Lake - KVT, CAW (Salt & Salt 1976)
- 1, Aug. 6, Winagami Lake - WWS
- 1, Aug. 15 (photographed), Standard - WWS, CAW (Salt & Salt 1976)

1974. Ev - 1, Aug. 17, Cheadle - TSS
- 3, Aug. 25, Beaverhill Lake - RIP (Wolford 1975a)

1975. Ev - 1, Sept. 14, Beaverhill Lake - Dekker (1976a)

1976. Ev - 1, July 18 (photographed), Delacour - Pinel & Butot (1978)
- 2, Aug. 12, Lac la Biche - CRW, RAW

1977. Ev - 1, Aug. 2, Ft. MacKay - WWS

1978. Ev - 6, May 15, Ft. McMurray - BRW
- 8, May 18, Ft. McMurray - BRW

1979. Ev - 1, Aug. 12, Jasper Lake, Jasper N.P. - Holroyd & Van Tighem (1983)

1980. Ev - 1, Aug. 21, Big Hill Springs - Steeves (1981)

Least Sandpiper *(Calidris minutilla)*

Spring migrants arrive in southern Alberta from April 17 to May 1. This is considerably earlier than records indicated for the previous decade (Sadler & Myres 1976). Francis & Lumbis (1979) state that the first spring migrants arrive on May 8 in the Ft. MacKay area. There are only two spring migration records for the mountains. This species usually leaves the province by the end of May, to continue north.

Sadler & Myres (1976) state that there were almost no fall records for the 1960's. Salt & Salt (1976) state that some adults appear in early August on their southward migration. Records for the 1970's indicate that some Least Sandpipers arrive in late June or July on their southbound passage. The last birds are usually seen between mid-September and mid-October. Least Sandpipers are more regular in the fall than in the spring in Banff and Jasper National Parks.

The 1971 observations from Lake Athabasca and Lillabo Lake indicate possible nesting in Alberta.

1971. Sa - 5, May 1, Strathmore - ISS, TSS
Sb - 150, May 21, Calgary - HAV
Eb - 1, June 23, Lillabo Lake, south of Lake Athabasca - Höhn (1972a). This bird was a tame female with a definite fading brood patch--collected.
- 2, July 2, west end of Lake Athabasca - Höhn (1972a); flushed from muskeg on small island.
Fa - 10, July 25, Strathmore - TSS
Fc - 3, Sept. 11, Calgary - BIL, VGL

1972. Sa - 48, April 27, Chestermere Lake - WWS
Em - 2, May 6, Bow Valley P.P. - BIL, VGL
Sc - 13, May 16, Calgary - HWP

Fa - 10, July 16, Mattoyekieu Lake - CAW
Fb - 150+, Aug. 13, Deadhorse Lake - WWS, CAW, CRW, RAW
Fc - 9, Oct. 1, Beaverhill Lake - LOG
1973. Sa - 1, April 28, Chestermere Lake - BIL, VGL, CAR
Sc - 2, May 21, Conrich - RUB
Fa - 1, July 10, Sturgeon Lake - KVT, CAW
Fb - 50, Aug. 15, Calgary - WWS, CAW
Fc - 2, Sept. 16, Delacour - RUB
- 1, Sept. 16, Beaverhill Lake - GWG, LOG
1974. Sa - 1, April 25, Chestermere Lake - HWP, CAR
Sc - 2, June 8, Calgary - DPD
Fa - 3, July 3, Chain Lakes P.P. - Crack & Danielson (1974c)
- 4, July 4, Pitchimi Lake - Höhn & Burns (1975)
Fb - 25, July 9, Little Fish Lake - WWS
Fc - 4, Sept. 7, Chestermere Lake - RUB
1975. Sa - 16, April 26, Norfolk - RUB
Sb - 100, May 9, Tofield - DID
Sc - May 31, Ft. MacKay area - Francis & Lumbis (1979)
Fa - June 26, Ft. MacKay area - Francis & Lumbis (1979)
- 1, June 29, Priddis - DPD
Fb - 100, July 5, Beaverhill Lake - DID
- 100, July 10 & 13, Delacour - RUB
Fc - 1, Oct. 12, Water Valley - Johnston (1976b)
1976. Sa - 1, April 25, Irricana - RUB
Sc - 1, May 30, Dowling Lake - RUB
Fa - 2, July 2, Balzac - RUB
- 4, July 2, Irricana - RUB
Fb - 120, July 17/18, Balzac - RUB
- 72, Oct. 6, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Fc - 10, Oct. 16, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
1977. Sa - 2, April 17, Brant - RUB
Sc - 1, May 23, Irricana - RUB
Em/Sc - 2, May 28, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fa - 3, July 2, Monitor - RUB
Fc - 1, Sept. 11, Beaverlodge - GEM
1978. Sa - 1, April 29, Chestermere Lake - RUB
Sb/Sc - 50, May 23, Beaverhill Lake - RUB
Sc - 40, May 24, Bear Lake - ELC, GEC
Fa - 22, July 8, Vale - RUB
Fc - 5, Aug. 28, Mirror - RUB
1979. Sa - 2, April 27, Delacour - RUB
Sc - 1, May 20, Gooseberry Lake - RUB
Fa - July 27, Lake Annette, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, July 29, Calgary - BSD
Fb - 30, Aug. 10, Mile 18 Pond, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 3, Sept. 12, Cochrane - SFJ
1980. Sa - 3, April 30, Cheadle - TSS
Sc - 1, June 8, Calgary - AJF
Fa - 20, Aug. 6, Calgary - ANS
Fc - 1, Sept. 19, Calgary - OLD

White-rumped Sandpiper *(Calidris fuscicollis)*

The White-rumped Sandpiper occurs in Alberta mainly as a spring migrant. It has been observed from May 5 to June 17. There are many more reports of this species during this decade than previously.

There are several interesting observations listed below including four fall records, a July record for Wood Buffalo National Park, and an unusually large flock of 1,100 birds in June at Beaverhill Lake.

The White-rumped Sandpiper was considered a rare migrant in Alberta until field work in the 1980's by the authors in the Provost-Chauvin area has shown it to be a regular spring migrant during the latter half of May. In this region, the species typically occurs on unvegetated shores of saline lakes in sandy parkland.

1971. Fc - 1, Sept. 30, Frank Lake - RDB
1972. Sa - 2, May 11, Beaverhill Lake - WWS, CAW, CRW
1973. Sa - May 26, Tofield - LOG, JHP
S - 3, May 26/27, Buffalo Lake - GWG, LOG, JAP
- 3, May 27, Conrich - RUB
- 1, May 27, Cooking Lake - BEB, GEB, JIW
- 1, June 2, Beaverhill Lake - JIW
- 1, June 2, Cooking Lake - JIW
Sc - 1, June 3, Whitford Lake - GWG, LOG
1975. Sa - 1, May 5, Cheadle - TSS
Sb/Sc - 15, May 31, Beaverhill Lake - DID, ROS (Dekker 1975a)
Fa - 1, Aug. 7, Syncrude lease - Sharp & Richardson (1976)
F - 1, Aug. 12, Mildred Lake - Sharp & Richardson (1976)
1976. S - 2, May 30, Ft. McMurray - Gulley (1976)
- 2, June 1, Gregoire Lake - WWS
- 3, June 6, Irricana - RUB
Sc - 1, June 12, Beaverhill Lake - DID
Fa - several adults, July 16, Lake Claire - JOK
1977. Sa - 1, May 9, Galahad - KAS
Sc - May 26, Ft. McMurray - Gulley (1979)
F - Sept. 17, Ft. McMurray - Gulley (1979)
1978. Sa - 10, May 24, Beaverhill Lake - DID
S - 87, May 27/28, Edmonton area - Wiseley (1979b)
- 7, May 30, Ft. McMurray - BRW
- 22, May 31, Gregoire Lake - BRW
Sb - 1,100, June 4, Beaverhill Lake - Dekker (1982b)
- 700, June 10, Beaverhill Lake - DID
Sc - 100, June 17, Beaverhill Lake - Dekker (1982b)
1979. Sa - 1, May 13, Cheadle - RUB
S - 2, May 20, Sounding Lake - RUB
Sb/Sc - 38, May 26/27, Calgary area - Wiseley (1980a)

Baird's Sandpiper *(Calidris bairdii)*

The first spring migrants arrive in southern Alberta from April 12 to 29. This is contrary to the May migration stated by Sadler & Myres (1976) and the mid-May to early June migration stated by Salt & Salt (1976). Francis & Lumbis (1979) state that spring migration occurs from May 17 to 31 in the Ft. MacKay area. By the end of May or early June the last spring migrants have left Alberta for the arctic. Early fall migrants can arrive in late June and July, with most birds having left the province by mid-September. In a few years, they were recorded as late as the end of October and early November. There are three migration records for the mountains.

An important staging area in the Provost-Chauvin region was discovered during the 1980's by CAW and CRW. In this region, shallow saline lakes and ponds in areas of sandy soil constitute typical habitat used by this species.

1971. Sc - 25, May 21, Calgary - HAV
Fa - 10, July 25, Strathmore - TSS
Fc - 20+, Aug. 30, Elkwater Lake - WWS
1972. Sa - 3, April 12, Blackie - WWS, CAW, CRW
Sc - 2+, May 27/28, Standard - HWP, LIP, WWS, CAW, CRW
Fa - 10, July 24, Elnora - WWS
Fb - 100+, Aug. 13, Deadhorse Lake - WWS, CAW, CRW
Fc - 1, Oct. 22, Chestermere Lake - HAV
1973. Sa - 20, April 25, Strathmore - WWS
Sb - 120+, May 2, Namaka & Chestermere Lakes - WWS, CAW
Sc - 2, May 21, Lyalta - RUB
Fa - 4, July 3, Winagami Lake - WWS
- 4, July 11, Conrich - RUB
Fb - 30, Aug. 6, Winagami Lake - WWS
Fc - 1, Oct. 20, Beaverhill Lake - DID (Lang 1974a)
1974. Sa - 9, April 16, Chestermere Lake - RUB
Sb - 60, April 25, Chestermere Lake - HWP, CAR
Sc - 5, May 28, Rockyford - LIM, DVW
Fa - 1, June 30, Cheadle - TSS
Fb - 50, July 15, Cheadle - TSS
Em - 1, July 26, alpine meadow near Miette Hot Springs, Jasper N.P. - WTC, BOF, RGW
Em/Fc - 3, Sept. 1, Rock Lake - BEB, GEB
1975. Sa - 3, April 18, Conrich - HWP, CAR
Sb - 50, May 4, Looma - EBC
Sc - May 31, Ft. MacKay area - Francis & Lumbis (1979)
Fa - July 4, Ft. MacKay area - Francis & Lumbis (1979)
- 20, July 5, Beaverhill Lake - DID
- 12, July 6, Irricana - RUB
Fb - 40, July 10 & 13, Delacour - RUB
Fc - Sept. 14, Ft. MacKay area - Francis & Lumbis (1979)
- 7, Sept. 22, Beaverhill Lake - ROB, DVW
1976. Sa - 15, April 18, Chestermere Lake - RUB
Sb - 120, May 7, Conrich - RUB
Sc - 3, June 6, Irricana - RUB
Fa - 4, July 2, Irricana - RUB
- 12, July 2, Balzac - RUB
Fb - 100, July 17/18, Balzac - RUB
Em - Sept. 25, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Fc - 1, Nov. 7, Beaverhill Lake - ERW
1977. Sa - 12, April 17, Brant - RUB
Sc - 3, May 23, Keoma - RUB
Fa - 5, July 9, Stirling - RUB
Fb - 50+, Aug. 14, Irricana - LOB, BIL
Fc - Sept. 21, Ft. McMurray - Gulley (1979)
1978. Sa - 25, April 29, Chestermere Lake - RUB
Sc - 4, May 24, Castor - RUB
- 20, May 24, Bear Lake - ELC, GEC
Fa - 4, July 7, Orion to Wildhorse - RUB
Fc - 4, Sept. 16, Delacour - RUB
1979. Sa - 11, April 23, Chestermere Lake - WWS

Sc - 3, May 30, Chestermere Lake - ANS
Fa - 7, July 1, Irricana - RUB
Fb/Fc - 56, Sept. 12, Cochrane - SFJ
1980. Fa - 2, Aug. 6, Calgary - ANS
Em - 2, Sept. 14, Larch Valley, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 2, Sept. 19, Calgary - OLD

Pectoral Sandpiper ***(Calidris melanotos)***

Pectoral Sandpipers arrive in southern Alberta on their northward migration from April 25 to May 10, and by the end of May have usually left Alberta for the arctic. Francis & Lumbis (1979) state that spring migration occurs between May 17 and June 8 in the Ft. MacKay area.

Southward bound fall migrants can be observed as early as late June and early July. In most years, the last fall migrants are seen during the last half of October.

1971. Sa - 1, May 10, Langdon - ROL, DVW
- 3, May 10, Calgary - RIP
Sc - 4, May 21, Calgary - HAV
Fa - 25, July 25, Irricana - TSS
Fb - 50, Aug. 8, Chestermere Lake - WIH, WGM
Fc - 1, Sept. 17, Calgary - WWS
1972. Sa - 6, May 5, New Sarepta - WWS, CAW, CRW
Em - 1, May 11, Jasper N.P. - Holroyd & Van Tighem (1983)
Sb - 75+, May 18, Dry Island Buffalo Jump P.P. - WWS
Sc - 2, May 27, Standard - HWP, LIP
Fa - 2, July 19, Calgary - GEA, WEB
F - 7, Sept. 17, Vermilion Lakes, Banff N.P. - WAN
Fb - 600, Sept. 26, Deadhorse Lake - Kondla et al. (1973)
Fc - 2, Oct. 29, Beaverhill Lake - DID, LOG
1973. Sa - 4, April 28, Chestermere Lake - BIL, VGL, CAR
- 2, April 29, Tofield - LOG, LOW
Sb - 225, May 5 & 20, Tofield - GWG, LOG
Sc - 4, May 27, Buffalo Lake - GWG, LOG
Fa - 4, June 27, Namaka Lake - VGL
Fb - 170, Sept. 1, Beaverhill Lake - GWG, LOG
Fc - 3, Oct. 27, Beaverhill Lake - DID, LOG (Lang 1974a)
1974. Sa - 4, April 25, Chestermere Lake - HWP, CAR
Sb - 200, May 8, Tofield - DID
Sc - 1, May 18, Cheadle - TSS
Fa - 1, July 4, Cheadle - TSS
Fb - 161, July 18, Syncrude lease - Sharp et al. (1975)
Fc - 3, Oct. 26, Tofield - DID
1975. Sa - 1, April 26, Tofield - DID
Sb - 500+, May 10, Miquelon & Beaverhill Lakes - WWS
Sc - 1, June 6, Calgary - DPD, SAD
- few, June 16, Syncrude lease - Sharp & Richardson (1976)
Fa - 20, July 10, Delacour - RUB
Fb - 60, Sept. 13, Eagle Lake - RUB
Fc - Oct. 24, Syncrude lease - Sharp & Richardson (1976)
- 1, Oct. 26, Irricana - RUB
- 2, Nov. 9, Wabamun Lake - RAE, DVP
1976. Sa - 5, April 25, Irricana - RUB
Sc - 1, May 15, Frank Lake - HWP

Fa - 2, Aug. 1, Delacour - RUB
F - 2, Oct. 10, Jasper N.P. - JDL
Fc - 1, Nov. 7, Namaka Lake - JOD, JMP
1977. Sa - 50, April 28, Galahad - KAS
S - 10, May 9, Pocahontas, Jasper N.P. - Holroyd & Van Tighem (1983)
Sb/Sc - 24, May 14, Irricana - RUB
Fa - 2, July 2, Monitor - RUB
Fc - Oct. 14, Ft. McMurray - Gulley (1979)
1978. Sa - 8, April 26, Saskatoon Lake - ELC, GEC, JVL
Sb - perhaps 100,000, May 19-22, Beaverhill Lake - DID (an excellent account of this can be seen in the PMA card files.)
Eb - 3, June 24, Beaverhill Lake - DID
Fa - 12, July 9, Beaverhill Lake - DID
Fb - 200+, July 28, Vegreville - JAS, MES
Fc - 4, Oct. 7, Brooks - RUB
1979. Sa - 5, April 28, Bear Lake - ELC, GEC
Sb - 152, May 13, Cheadle - RUB
Sc - 8, May 30, Chestermere Lake - ANS
Fa - 35, July 15, Conrich - RUB
Fb - 62, Aug. 24, Pocahontas, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb/Fc - 100, October 15, Bear Lake - ELC, GEC
1980. Sa - 2, May 2, Calgary - OLD
Sb - 1,131, May 24/25, Calgary area - Wiseley (1981)
Fa - 1, July 1, Mowitch Creek, Jasper N.P. - Holroyd & Van Tighem (1983)
Fb - 25, Sept. 4, Calgary - ANS
Fc - 1, Sept. 14, Eagle Lake - CFNS

Sharp-tailed Sandpiper *(Calidris acuminata)*

The first documented record of this species for Alberta occurred in September 1975. The first ten records of this species for the province, all of which occurred at Beaverhill Lake, are listed below. The majority of the Alberta observations occur during October. The only spring record was in 1978.

1975. Ev - 1 adult, Sept. 21, Beaverhill Lake - PES, ERT, TWT, ALW (Sherrington 1980)
- 2, Oct. 5 (photographed), Beaverhill Lake - MKM, ERT, TWT (Salt & Salt 1976)
1977. Ev - 1, Oct. 10, Beaverhill Lake - MAH
- 4 immatures, Oct. 15, Beaverhill Lake - DID, ROS
- 1, Oct. 22 & 23, Beaverhill Lake - DID
- 1 adult & 1 immature, Oct. 24 & 25, Beaverhill Lake - DID, ARS
1978. Ev - 1 adult, May 23 (photographed), Beaverhill Lake - Butot (1978c)
1979. Ev - 1, Oct. 6, Beaverhill Lake - Sherrington (1980)
- 1, Nov., Beaverhill Lake - DID, RAE (Harris 1980a)
1980. Ev - 2, Sept. 28 to Oct. 10, Beaverhill Lake - DID, EOH, PTS, ROS, TWT (Thormin 1980)

Dunlin *(Calidris alpina)*

The Dunlin is a rare spring migrant recorded from April 20 to June 6, usually as single birds. There is one extralimital migration record for the mountains during the decade. In the fall passage, this species appears to be a late migrant with all but three observations during the last half of October.

1971. Sa - 1, April 24, Langdon - ROL, DVW
1972. Sc - 1, May 27, Irricana - RIP, DVW
Fa - 1, July 24, Elnora - WWS
1973. Sa - 1, May 5, Tofield - DID, GWG, LOG
- 1, May 6, Chestermere Lake - HWP, CAR
Sc - 1, June 2, Beaverhill Lake - JIW
1974. F - 1, Oct. 24, Frank Lake - LIM, REM, DVW
Fc - 1, Oct. 27, Irricana - RUB
- 1, Oct. 27, Edmonton - DID, MAH
1975. Sa - 2, April 24, Beaverhill Lake - DID
- 2, April 26/27, Norfolk - RUB, WIH
Sc - 1, May 26, Calgary - JIM, ANS
- 1, June 6, Syncrude lease - Sharp & Richardson (1976)
Fa - 1, Aug. 25, Syncrude lease - Sharp & Richardson (1976)
Fc - 1, Oct. 26, Irricana - RUB
1976. Em - 1, May 26, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Sc - June 3, Ft. McMurray - Gulley (1979)
Fc - 1, Oct. 18, Frank Lake - RUB
1977. Sa - 1, April 30, Delacour - RUB
S - 1, May 7, Galahad - KAS
Eb - 1, June 5, Frank Lake - RUB
Fb/Fc - up to 5 birds, Oct. 15-29, Beaverhill Lake - DID, FBG, ARS, TWT, ALW, TEW
1978. Sa - 3, April 22, Beaverhill Lake - DID
Sb - 4, May 2, Beaverhill Lake - DID
Sc - 1, May 27, Beaverhill Lake - DID
Em/Sc - 1, May 27, Bear Lake - ELC, GEC
1979. Sa - 1, May 13, Ardenode - JOR
- 1, May 13, Cheadle - RUB
Sc - 1, May 26/27, Calgary area - Wiseley (1980a)
- 2, May 26/27, Edmonton area - Wiseley (1980a)
1980. Sa - 1, April 20, Beaverhill Lake - JAG
Sc - 1, May 21, Beaverhill Lake - ETJ
F - 1, Sept. 28, Beaverhill Lake - PTS, ERT, TWT

Curlew Sandpiper *(Calidris ferruginea)*

The first authenticated record for the province is listed below. There is one previous spring sight record (1969) for Chain Lakes, northwest of Hanna (Whitelaw 1971).

1975. Ev - 1 (photographed), Oct. 9, Frank Lake - RUB (Butot 1977f; Pinel & Butot 1978)

Stilt Sandpiper *(Calidris himantopus)*

Stilt Sandpipers pass through Alberta on their northward journey in May. During the decade, the migration was recorded from May 7 to June 2. On the southward migration, this species appears in July and sometimes lingers until mid-October. There are many more records of this species during the 1970's than in previous decades. It is interesting to note that the latest fall migrant record that Sadler & Myres (1976) had for the 1960's was August 17, 1968.

For many years this species was considered to occur in relatively low numbers in Alberta. However, in the 1980's thousands have been recorded in the Chauvin-Provost area, particularly during spring migration.

1971. Sa - 5, May 14, Janet - ROL, DVW
Sb - 10, May 21, Calgary - HAV
Sc - 5, May 23, Cheadle - CHG, ISS, TSS
F - 5, Aug. 18, Conrich - WWS
1972. Sc - 3, May 27, Irricana - RIP, DVW
Fa - 2, July 21, Conrich - BIL, VGL
Fb - 20, Sept. 9, Mann Lakes - WWS, CRW
Fc - 1, Oct. 5, Vermilion - DOB, MAM, PAM
1973. Sa - 8, May 19, Miquelon Lake - BIL, VGL
- 10, May 19, Tofield - DID
Sb - 80, May 20, Tofield - DID
Sc - 12, May 27, Beaverhill Lake - BEB, GEB, JIW
Fa - 5, July 7, Beaverhill Lake - DID
Fb - 15, Sept. 16, Conrich - RUB
Fc - 1, Oct. 11, Irricana - WWS
1974. Sa - 3, May 12, Miquelon Lake - LIM, RIP, DVW
Sb/Sc - 18, May 25, Chestermere Lake - RUB
Sc - 3, May 25, Beaverhill Lake - DID, JIW
Fa - 3, July 25, Cheadle - TSS
Fb - 16, Aug. 18, Cheadle - TSS
Fc - 1, Oct. 12, Tofield - JOA, MAM, PAM
1975. Sa - 5, May 11, Looma - BEB, GEB
- 1, May 11, Conrich - HWP
Sa/Sb - 24, May 9, Tofield - DID
Sc - June 2, Ft. MacKay - Francis & Lumbis (1979)
Fa - 4, July 6, Irricana - RUB
Fb - 25, July 12, Tofield - DID, ROS
Fc - Sept. 8, Ft. MacKay - Francis & Lumbis (1979)
- 1, Sept. 11, Beaverhill Lake - MRB, DVW
1976. Sa - 4, May 8, Pakowki Lake - WWS
- 1, May 10, St. Albert - RAE
Sc - 3, May 23, Delacour - RUB
- 1, May 23, Irricana - RUB
Fa - 3, July 3, Cheadle - RUB
Fb - 31, Aug. 2, Cheadle - RUB
Fc - 5, Sept. 24, McGregor Lake - RUB
1977. Sa - 1, May 7, Galahad - KAS
- May 15, Ft. McMurray - Gulley (1979)
Sb/Sc - 36, May 28/29, Ft. McMurray area - Wiseley (1979b)
Fa - 2, July 2, Monitor - RUB
Fb - 26, Aug. 27, Irricana - RUB
1978. Sb - 21, May 21, Bashaw - RUB
Fa - 1, July 1, Frank Lake - RUB
Fb - 100+, July 22, Beaverhill Lake - JAS, MES
1979. Sa - 1, May 13, Cheadle - RUB
Sb - 85, May 20, Altario - RUB
Sc - 3, May 27, Didsbury - ADS, DOS, PHS
Fa - 6, July 15, Conrich - RUB
Fb - 29, Aug. 25, Pocahontas, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 16, Sept. 15, Cayley - RUB
1980. Sa - 2, May 18, Buffalo Lake - JOR

Buff-breasted Sandpiper *(Tryngites subruficollis)*

This species is recorded during spring migration from May 12 to June 18. The highest numbers are seen at Beaverhill Lake during the spring passage. During the fall passage, Buff-breasted Sandpipers are seen during August and early September, but in much lower numbers than in spring migration. There is one migration record for the mountains.

1971. S - 7, May 24, Beaverhill Lake - Houston (1971b)
Sb - 200, May 29, near Beaverhill Lake - TSS
1972. Sa - 4, May 12, Calgary - HWP, LIP (Pinel & Butot 1978)
F - 9, Aug. 27, Frank Lake - CFNS (Pinel & Butot 1978)
1973. Sa - 31, May 20, Beaverhill Lake - DID, GWG, LOG (Renaud 1973)
Sb - 300, May 21, Beaverhill Lake - DID, GWG, LOG (Renaud 1973)
Sc - 2, May 22, Beaverhill Lake - DID, GWG, LOG (Renaud 1973)
Fa - 2, Aug. 11, Tofield - GWG, LOG
1974. Sa - 50, May 26, Beaverhill Lake - GWG, LOG
Sb - 100, June 2, Beaverhill Lake - JIW
Fa - 1, Aug. 18, Syncrude lease - Sharp et al. (1975)
1975. Sb - 300, May 25, Tofield - DID
Sc - 50, May 31, Tofield - DID, ROS
Fa - Aug. 3, Ft. MacKay - Francis & Lumbis (1979)
Em - 2, Aug. 31, Lesser Slave Lake P.P. - DEG, GCG
Fc - Sept. 12, Ft. MacKay - Francis & Lumbis (1979)
1976. Sc - 1, June 4, Pinehurst Lake - WWS, CAW
1977. S - 15, May 28/29, Beaverhill Lake - Wiseley (1979b)
Fc - 1, Sept. 4, Beaverhill Lake - Thormin (1977d)
1978. Sa - May 20, Ft. McMurray - Gulley (1979)
Em - 15, May 24, Bear Lake - ELC, GEC
S - Dick Dekker provides the following detailed account for Beaverhill Lake: May 15 - 1, May 16 - several dozens, May 18 - several hundreds, May 19 - several thousands (observer's all time high), May 22 - 1,000 along central-west shore alone, May 27 - numbers leaving in late afternoon, June 3 - small numbers present to this date, June 18 - 5 (last birds seen)
Em - 30, Aug. 25, Saskatoon Lake - ELC, GEC
Fc - Aug. 26, Ft. McMurray - Gulley (1979)
1979. Sa - 8, May 19, Beaverhill Lake - RUB
S - 20, May 26/27, Edmonton area - Wiseley (1980a)
Fc - 2, Aug. 26, Cochrane Lake - SFJ, WHS
Em/Fc - 1, Aug. 26 & 29, Jasper Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 5, May 18, Chestermere Lake - ANS
S - 20, May 24/25, Edmonton area - Wiseley (1981)
Fc - 1, Sept. 14, Beaverhill Lake - PTS, ERT, TWT

Ruff *(Philomachus pugnax)*

The records below represent the second, third and fourth for the province. All are from the Edmonton area in three different years over an interesting five day span.

1976. Ev - 1 male, May 6-9, St. Albert - Bulmer & Bulmer (1976), Serr (1976b), Weseloh (1977a)
1978. Ev - 1 adult, May 8, Beaverhill Lake - DID
1979. Ev - 1 male, May 6-10, Edmonton - Gollop (1979a), Sherrington (1980); Gollop reports 2 birds, while Sherrington only reports 1 bird.

Short-billed Dowitcher *(Limnodromus griseus)*

There are far fewer records of this species than the Long-billed Dowitcher in Alberta. It appears that this species arrives in early May. There are few nesting records for the province. The southward migration appears to commence in July and last, in some years at least, until late October. There are six migration records for the mountains.

More detailed observations need to be made on this species in Alberta. The major obstacle to this is the difficulty in field identification between our subspecies, *hendersoni*, and the Long-billed Dowitcher.

1971. Fa - 6, July 10, Calgary - BIL, VGL
Fc - 14, Sept. 12, Chestermere Lake - WIH, WGM
1972. Sa - 5, May 7, Chancellor - WWS, CAW
- 1, May 7, Brooks - GEA, WEB, BIL, VGL
Em - 2, June 5, Vermilion Lakes, Banff N.P. - DPD
1973. Fa - 2, Aug. 11, Beaverhill Lake - GWG, LOG
Fc - 1, Sept. 27, McGregor Lake - WWS
1974. Sa - 1, May 15, Busby - VGL
Sc - 1, June 7, Milk River Canyon - WWS
Fa - 5, July 6, Cheadle - TSS
Fb - 46, July 18, Irricana - RUB
Fc - 4, Oct. 27, Irricana - RUB
1975. Sa - 6, May 3, Airdrie - RUB, HAV
Sc - 1, June 8, Frank Lake - JOD, KSC
Fa - 1, July 14, Gull Lake - JHA
Fc - 1, Oct. 26, Irricana - RUB
1976. Sa - 3, May 9, Nojack - REG (copulation observed at a muskeg lake)
Fa - 14, Aug. 7, Bashaw - RUB
Fc - 1, Sept. 20, Cayley - RUB
1977. Sa - 3, May 8, Ft. MacKay - WWS
B - nest with 3 eggs, June 12, Ft. MacKay - WWS; another nest with 4 eggs found on June 18 in the same muskeg.
Fa - 28, July 2, Monitor - RUB
Em - 9, Aug. 6, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, Sept. 12, Edna Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Em/Fc - 31, Sept. 17, Edna Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
1978. S - 1, May 22, Beaverhill Lake - RUB
Fa - 16, July 9, Lake Newell - RUB
Em - 1, Aug. 22, Waterfowl Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 2, Sept. 10, Namaka Lake - RUB
1979. S - 6, May 18, Beaverhill Lake - RUB
- 12, May 20, Cadogan - RUB
Em - 1, Sept. 1, Wigmore Lake, Banff N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 1, April 30, Calgary - ANS
Sc - 2, May 25, Bruce Lake - JOR

Long-billed Dowitcher *(Limnodromus scolopaceus)*

Long-billed Dowitchers arrive in Alberta in the last half of April and early May, and have left for their northern nesting areas by the end of May. Peak numbers occur in mid-May.

Salt & Salt (1976) state that the first southbound migrants do not arrive in central Alberta until early August. However, data for the 1970's shows that the first southbound migrants appear in July. The last birds leave the province from late October to early November.

1971. Sa - 5, April 25, Beiseker - JRC, TSS
Sb - 32, May 9, Shepard - JOP
Fa - 8, July 25, Strathmore - TSS
1972. Sa - 10, April 30, Strathmore - TSS
Sb - 80, May 11, Beaverhill Lake - WWS, CAW, CRW
Sc - 4, May 21, Little Bow Lake - HWP, LIP
Fa - 3, July 3, Irricana - BIL, VGL, DVW
Fb - "hundreds", Oct. 13, Chestermere Lake - WWS, CAW, CRW, RAW
Fc - 6, Oct. 22, Beaverhill Lake - LOG
- 18, Oct. 22, Vermilion Lakes, Banff N.P. - WWS
1973. Sa - 3, April 29, Delacour - HWP, CAR
Sc - 9, May 20, Tofield - GWG, LOG
Fa - July 7, Beaverhill Lake - DID
Fb - 170, Sept. 16, Beaverhill Lake - GWG, LOG
Fc - 1, Oct. 27, Beaverhill Lake - DID, LOG (Lang 1974a)
1974. Sa - 2, April 27, Rockyford - LIM, RIP, DVW
Sb/Sc - common, May 25, Beaverhill Lake - DID, JIW
Fa - 20, July 8, Cheadle - TSS
Fb - 1,000, Sept. 22, Tofield - RIP, JIW
Fc - 12, Oct. 26, Tofield - BEB, GEB
- 2, Oct. 27, Irricana - RUB
1975. Sa - 3, April 25, Frank Lake - BIL, HWP
Sc - 50, May 20, Delacour to Norfolk - RUB
Fa - July 4, Ft. MacKay - Francis & Lumbis (1979)
- 4, July 8, Cheadle - TSS
Fb - 120, Sept. 28, Irricana - RUB
Fc - 3, Oct. 26, Irricana - RUB
1976. Sa - 2, April 25, Irricana - RUB
Sb - 105, May 7, Irricana - RUB
Sc - 4, May 29, Plover Lake - RUB
Fa - 1, June 26, Conrich - RUB
Fb - 195, Sept. 20, Cayley - RUB
Fc - 1, Nov. 7, Namaka Lake - JOD, JMP
1977. Sa - April 24, Galahad - KAS
- 12, May 8, Ft. MacKay - WWS
Sb - 95, May 14, Delacour - RUB
Sc - 11, May 29, Lethbridge area - Wiseley (1979b)
- 2, May 29/30, Edmonton area - Wiseley (1979b)
Fb - 70, Oct. 2, Eagle Lake - JOD, PES
Fc - 17, Oct. 16, Eagle Lake - PES
1978. Sa - 2, April 16, Bearberry - DUC
Sb - 75, May 13, Bear Lake - ELC, LRD, JVL
Sc - 22, May 21, Bashaw - RUB
Fa - 30, July 19, Little Fish Lake - JAS, MES
Fb - 400+, July 22, Tofield - JAS, MES, TWT
1979. Sa - 72, May 12, Irricana - RUB
Sc - 1, May 27, Conrich - RUB

Fa - 1, Aug. 25, Calgary - HWP
Fc - 1, Oct. 15, Bear Lake - ELC, GEC
- 14, Oct. 16, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 20, April 30, Cheadle - TSS
Sc - 1, May 31/June 1, Lethbridge area - Wiseley (1981)
Fa - 20, Aug. 6, Calgary - ANS

Common Snipe *(Gallinago gallinago)*

Records for the decade indicate that Common Snipe usually arrive in southern Alberta in the first three weeks of April. Francis & Lumbis (1979) give an arrival date of April 27 in the Ft. MacKay area. There are early spring records for 1971 and 1978. In the fall, Common Snipe may linger until mid-November. There are winter records for Banff National Park, Calgary, Waterton Lakes National Park and Caroline.

1971. Sa - 1, March 26, Calgary - RIP
Fb - 30, Sept. 30, Frank Lake - CDB, RDB
Fc - 2, Nov. 18, Calgary - WIH
1972. Sa - 1, April 10, Shepard - BIL, VGL
B - 4 nests in 400 square meters, June, Bow Valley P.P. - CRW
Fc - 1, Dec. 12, Calgary - HWP, CAR
1973. Sa - 1, April 10, Lamont - MAR
Sb - 50, April 28, Josephburg - JIW
Fb - 200, Sept. 1 & 8, Beaverhill Lake - GWG, LOG
Fc - 1, Nov. 17, Calgary - HWP
1974. Sa - 3, April 12, High River - RUB
Fc - 2, Oct. 27, Chestermere Lake - HAV
- 7, Oct. 27, Tofield - DID
1975. Sa - 1, April 22, Calgary - HWP, CAR
Sb - 10, April 24, Winterburn - JIW
Ew - 2, Dec. 27, Banff - Christmas Bird Count
W - 1, Dec. 28, Calgary - Christmas Bird Count
1976. Sa - 1, April 9, Conrich - HWP
- 1, April 9, Galahad - KAS
W - 1, Dec. 17, Calgary - HWP
Ew - 2, Dec. 19, Banff - Christmas Bird Count
1977. Sa - 1, April 10, Galahad - KAS
- April 20, Ft. McMurray - Gulley (1979)
Fc - Oct. 17, Banff N.P. - Holroyd & Gartshore (1978)
- 1, Oct. 18, Gem - HWP, JOR
Ew - 1, Dec. 9, Waterton Lakes N.P. - Merilees (1984)
- 5, Dec. 17, Banff - Christmas Bird Count
1978. Sa - 1, March 29, Wembley - KAA
Fc - 1, Nov. 18, Pincher Creek - WWS
Ew - 3, Dec. 17, Banff - Christmas Bird Count
1979. Ew - 1, Jan. 14, Caroline - GRG, MIR, ANS, DOS, PHS
Sa - 1, April 16, Cheadle - TSS
Ew - 1, Dec. 16, Banff - Christmas Bird Count
1980. Sa - 2, April 16, Calgary - ANS
W - 1, Dec. 16, Calgary - HWP

[American Woodcock *(Scolopax minor)*]

One hypothetical record is reported below. Bent (1927) states that this species is "casual in summer" at Edmonton, but lists neither dates nor supporting evidence.

1974. Ev - 1, Sept. 29, Edmonton - Ms. Bodman (bird was feeding on lawn, but flew before a picture could be taken)

Wilson's Phalarope *(Phalaropus tricolor)*

The first spring migrants arrive in southern Alberta between April 25 and May 5. In the fall, the last birds usually leave in September. There is an unusually late fall record for 1976.

1971. Sa - 1 female, May 1, Strathmore - ISS, TSS
Fc - 4, Sept. 12, Chestermere Lake - WIH, WGM
1972. Sa - 2 females, April 30, Delacour - GEA, WEB, BIL, VGL
Fc - 10, Sept. 10, Miquelon Lake - Höhn (1981)
1973. Sa - 3 females, May 2, Edmonton - JIW
- 1 male & 2 females, May 5, Chestermere Lake - HWP, LIP
Fc - 1, Sept. 27, McGregor Lake - WWS
1974. Sa - 1 female, April 30, Rockyford - LIM, DVW
- 1 female, April 30, Pinhorn Grazing Reserve - WWS
Sb - 60, May 7, Pinhorn Grazing Reserve - WWS
Fc - Sept. 22, Tofield - RIP, JIW
1975. Sa - 1, May 3, Calgary - LIW
- 6, May 4, Hay Lakes area - EBC
- May 7, Ft. MacKay - Francis & Lumbis (1979)
Fc - 1, Sept. 6, Irricana - ANS
1976. Sa - 1, May 2, Calgary - ADS, DOS, PHS
- 1, May 2, Conrich - ANS
- 3, May 2, Langdon - DVW, LIW
Eb - breeding at McLelland Lake - Francis & Lumbis (1979)
- 2, Aug. 4, Ft. Chipewyan - RAE
Fc - 2, Oct. 24, McGregor Lake - JOD, JMP
1977. Sa - 1 female, April 30, Delacour - RUB
- 1 female, May 1, Beaverhill Lake - JAG, RAG
- May 2, Ft. McMurray - Gulley (1979)
Sb - 150, May 14, Irricana - RUB
Eb - 14, May 29, Banff N.P. - Holroyd & Van Tighem (1983)
- present at Birch Lake during summer - Francis & Lumbis (1979)
1978. Sa - 2, May 5, Irricana - RUB
- 2, May 15, Ft. McMurray - BRW
Fc - 40, Sept. 24, Pekisko - RUB
1979. Sa - 2 females, April 28, Cheadle - RUB
Eb - 1 female, June 20, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 2, Sept. 9, Eagle Lake - HWP
1980. Sa - 1, April 25, Calgary - DOS, PHS

Red-necked Phalarope *(Phalaropus lobatus)*

The spring passage occurs from early May to early June with peak numbers occurring during the third and fourth week of May, particularly on lakes in east-central Alberta.

The first nesting record for the province was in the Caribou Mountains in 1979 (Höhn & Mussel 1980).

Fall migrants have been observed from early July to mid-October. The size of the flocks in fall migration appears to be smaller than in the spring migration. Höhn (1981) discusses flocks at Miquelon Lake during the 1970's.

1971. Sa - 4, May 20, Irricana - ROL, DVW
Sb - 2,000-3,000, May 28, Miquelon Lake - TSS
Fa - 50, July 15, Buffalo Lake - MAC, DVW
Fa/Fb - 1,000+, July 15, Miquelon Lake - MAC, DVW
Fb - 1,000, Aug. 7, Miquelon Lake - Höhn (1981)
1972. Sa - 2, May 11, Janet - DVW
- 40, May 11, Beaverhill Lake - WWS
Sb - 2,000, May 20, Namaka Lake - TSS
Sc - 43, May 27, Carseland - GEA, WEB, VGL
Fa - 45+, July 16, Deadhorse Lake - CAW
Fb - 1,000, Aug. 12 & 13, Miquelon Lake - Höhn (1981)
- 1,000+, Aug. 21, Namaka Lake - TSS
Fc - 6, Sept. 24, Beaverhill Lake - LOG
1973. Sa - 4, May 12, Enchant - HES
Sb - 3,000, May 19, Miquelon Lake - VGL
Sc - 42, May 28, Calgary - HAV
Eb - 1, June 28, west of Rock Island Lake, Caribou Mts., "showed intense anxiety at our presence and probably had young nearby" - Höhn & Marklevitz (1974), Höhn & Burns (1975)
Fa - 100, July 7-17, Gooseberry Lake - Ebel et al. (1973b)
Fb - 1,500+, Aug. 18, Gooseberry Lake - Ebel et al. (1973b)
Fc - 1, Oct. 6-8, Beaverhill Lake - DID, LOG, TWT, JIW
1974. Sa - 1, May 11, Cheadle - TSS
Sb - thousands, May 25, Beaverhill Lake - DID, JIW
Sc - 10, June 1, Cheadle - TSS
Fa - 1, July 3, Chain Lakes P.P. - Crack & Danielson (1974c)
Fb - 300, July 26, Irricana - RUB
Fc - 1, Sept. 24, Tofield - JIW
1975. Sa - 1, May 4, Miquelon Lake - EBC
- 2 females, May 11, Conrich - HWP
Sb - 1,000+, May 20, Cheadle - TSS
Sc - several large flocks, May 31, Tofield - DID, ROS
Eb - 1 male, June 22 & 23, near Margaret Lake - Höhn & Burns (1976)
Fa - July 2, Ft. MacKay - Francis & Lumbis (1979)
- 60, July 13, Irricana - RUB
Fb - 200, Aug. 27, Cochrane Lake - Johnston (1976b)
Fc - 13, Sept. 12, Irricana - RUB
1976. Sa - 50, May 7, Pakowki Lake - WWS
- 1, May 7, Irricana - RUB
Sc - 1, June 19, Balzac - RUB
- 1, June 19, Irricana - RUB
Fa - 7, July 17, Irricana - RUB
Fc - 1, Oct. 18, Frank Lake - RUB
1977. Sa - 130, May 17, Buffalo Lake - ROB, JOD, DVW
S - 33, May 29, Banff N.P. area - Wiseley (1979b)
Fa/Fb - 381 females, July 2, Gooseberry Lake - RUB
Fb - 300+, July 9, Tyrrell Lake - RUB
F - 8, Aug. 21, Moraine Lake, Banff N.P. - RUB
Fb - 250, Sept. 11, Beaverhill Lake - TWT
Fc - 1, Oct. 2, Eagle Lake - JOD, PES
1978. Sa - 20, May 14, Kiever's Lake - CFNS

Fa - 2, July 1, Irricana - RUB
Fb - 500+, Aug. 12, Tofield - JAS, MES, TWT
Fc - 3, Sept. 24, Shepard - CFNS
1979. Sa/Sb - 2,500+, May 19 & 20, Gooseberry Lake - RUB
Sc - 12, May 27, Conrich - RUB
Eb - 1 male & nest with 1 egg, June 26, unnamed lake 1.5 km west of Rock Island Lake, Caribou Mountains - Höhn & Mussel (1980)
Fa - 1, Aug. 5, Nightingale - RUB
Fc - 40, Sept. 12, Cochrane Lake - SFJ
1980. Sb - 300, May 24/25, Edmonton area - Wiseley (1981)
Sc - 1, June 5, Calgary - OLD

Red Phalarope *(Phalaropus fulicaria)*

The records for the decade are listed below. They are all fall reports and represent the ninth to thirteenth records for the province. Of the thirteen known records for the province up to 1980, three quarters were observed in September and October mostly as single birds. Highlights for the decade include an unusually early fall record, an unusually late fall record and a group of four birds in mid-October.

The following record was not included in Sadler & Myres (1976): one female on May 18, 1970 at Beaverhill Lake (Lister 1979).

1975. Ev - 1, Nov. 11, Big Lake - Ebel (1976a), Goossen & Busby (1979)
1977. Ev - 1, Aug. 28, McGregor Lake - Butot (1977d)
- 1, Oct. 8, Beaverhill Lake - DID
- 4, Oct. 15, Beaverhill Lake - DID
- 1, Oct. 22, Beaverhill Lake - FBG, TWT, ALW, TEW

FAMILY: LARIDAE

[Pomarine Jaeger *(Stercorarius pomarinus)*]

A hypothetical record for Alberta is listed below. There are at least two other sight records previous to the decade (Höhn 1972a).

1978. Ev - 1 (probable), June 17, Beaverhill Lake - Dekker (1985a)

Parasitic Jaeger *(Stercorarius parasiticus)*

This species is recorded mainly as a fall transient from late August to early October. In 1978, it was observed during the spring migration in the Edmonton area and at Big Hill Springs Provincial Park. There were two summer records: from Lake Athabasca in 1971 and the Caribou Mountains in 1976.

Dekker (1985a) reports observing 138 Parasitic Jaegers on 59 dates during the years 1964 to 1983 at Beaverhill Lake; the best month was September with 94 sightings.

1971. Eb - 2, July 1 & 2, Lake Athabasca - Höhn (1972a)
Em - 1, Aug. 24 & 25, Calgary - RIP, DVW (Pinel & Butot 1978)
- 1, Sept. 13, Beaverhill Lake - DID (Houston 1972a)

1972. **Em** - 1, May 25, Calgary - DVW
- 1, May 30, Bistcho Lake - RLS

1973. **Em** - 1, Sept. 22, Frank Lake - CDB (Pinel & Butot 1978)
- 2 dark phase, Sept. 22, Beaverhill Lake - DID, LOG (Lang 1974a)
- 1, Sept. 23, Calgary - BIL, VGL, CAR (Pinel & Butot 1978)
- 2 dark phase, Sept. 26, Beaverhill Lake - DID
- 6 (dark & medium phases only), Beaverhill Lake - DID (actually saw 15 birds but conservatively estimated only 6)
- 2 medium phase, Oct. 6, Beaverhill Lake - DID
- 1 medium phase, Oct. 6-8, Beaverhill Lake - DID, LOG, TWT, JIW

1974. **Em** - 2, Sept. 15-24, Beaverhill Lake - DID, JIW

1975. **Em** - 2 adults, Aug 26, Lake Claire - JOK
- 2, Sept. 1, Ruth Lake - Francis & Lumbis (1979)

1976. **Eb** - 1, June 29, Margaret Lake - Höhn (1976)

Em - 1, Aug. 24, Edmonton - ERW (Serr 1977a)
- 1, Aug. 28, Snaring River, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1 dark phase, Sept. 19-21 & 24, Frank Lake - RUB, HRW, LNW (Pinel & Butot 1978)

1977. **Em** - 1, late summer, Lesser Slave Lake - Bradley (1980a)
- 4, Sept. 11, Beaverhill Lake - TWT

1978. **Em** - 1, May 27/28, Edmonton area - Wiseley (1979b)
- 1, May 31, Big Hill Springs P.P. - JEG, PEI, AIP
- 1, Aug. 15, Whirlpool River, Jasper N.P. - Holroyd & Van Tighem (1983)
- 1, Aug. 20, Lake Minnewanka, Banff N.P. - Holroyd & Van Tighem (1983)

1980. **Em** - 1, Sept. 12, Knights Lake, Waterton Lakes N.P. - TEH
- 2, Sept. 13, Lac des Arcs - Steeves (1981)
- 2, Sept. 15, Knights Lake, Waterton Lakes N.P. - TEH
- 1, Sept. 21, Lake Newell - Steeves (1981)

Long-tailed Jaeger *(Stercorarius longicaudus)*

Salt & Wilk (1966) list the Long-tailed Jaeger as an Alberta species, but Salt & Salt (1976) put it on their hypothetical list, despite a documentary photograph of a bird seen at Elkwater Lake (Halladay 1966).

All observations, except for one, in the 1970's occurred during August and early September. The areas that the observations occurred in were quite different from the previous decade, with four in east-central Alberta and four from the mountains. In the 1960's, this species was observed at Edmonton, Lake Newell, Elkwater Lake, Brooks and Calgary (Höhn et al. 1961; Sadler & Myres 1976).

1972. Ev - 1, Sept. 2, Cold Lake - WWS, CRW

1975. Ev - 1, Aug. 17, Upper Kananaskis Lake - Bishop (1975)

1976. Ev - 1, Aug. 28, Jasper N.P. - DVW, LIW (Weseloh 1977a)
- 1 adult, Aug. 29, Sir Winston Churchill P.P. - KAS

1977. Ev - 1 (photographed), Sept. 3 & 4, Beaverhill Lake - LUB, EOH, ERT, ALW, TEW
- 1, Sept. 11-12, Beaverhill Lake - Dekker (1979a), Dekker (1985a); observed preying on Lesser Yellowlegs

1978. Ev - 1, July, Lake Minnewanka, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, for ten days in Aug., Lower Kananaskis Lake - DFB (Wiseley 1979a)

Franklin's Gull *(Larus pipixcan)*

Franklin's Gulls arrive in southern Alberta from April 2 to 15. In the Ft. MacKay area, Francis & Lumbis (1979)`give late April as the time of spring arrival. From late July to late September, high numbers can be observed on some lakes in southern Alberta. The last migrants usually leave Alberta in early October, but stragglers have been recorded to the end of the month.

Weseloh (1981) describes a Franklin's Gull, probably paired with a Ring-billed Gull, nesting in Alberta. See Ring-billed Gull introduction for more details.

Francis & Lumbis (1979) report the most northerly nesting colony in North America at Loutit Lake in 1975.

1971. Sa - 1, April 5, Calgary - WIA
B - 10,000+, May 21, Frank Lake - EWB
- 6,000, July 29, McGregor Lake - EWB (hawking insects low over lake)
Fb - 2,000, Sept. 25, Calgary - REM, WGM
Fc - 4, Oct. 29, Calgary - RIP

1972. Sa - 3, April 10, Frank Lake - VGL
- 2, April 10, Shepard - DVW
B - 1,000's (including 1 melanistic bird), June 15, Hummock Lake - NGK, WWS
Fb - 5,000, Sept. 10, McGregor Lake - EWB
Fc - 21, Oct. 6, Calgary - VGL

1973. Sa - 2, April 15, Calgary - VGL, HWP
- 2, April 15, Tofield - BEB, GEB, JIW
Fb - 10,000, Aug. 19, McGregor Lake - EWB
- 7,000, Sept. 8, McGregor Lake - EWB
Fc - 2, Oct. 1, McGregor Lake - EWB

1974. Sa - 2, April 10, Aldersyde - GRW
- 1, April 12, Mundare - GWG, LOG, TWT
Em - May 3, Lake Minnewanka, Banff N.P. - Holroyd & Van Tighem (1983)
- May 9-12, Hay-Zama Lakes - Gunn et al. (1975)
Fb - 10,000, Aug. 25, McGregor Lake - EWB
Fc - 6, Oct. 14, Edmonton - DEG, GCG

1975. Sa - several, April 6, just north of Calgary - CRW
Sb - 500, April 25, Edmonton - JIW
Eb - mixed colony with Bonaparte's Gulls, Loutit Lake - Francis & Lumbis (1979)
- nesting colony, July 1, Pakowki Lake - Smith & Wallis (1976)
Em - 1, Aug. 4, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fb - 5,000, Aug. 25, McGregor Lake - EWB
Fc - 1, Oct. 5, McGregor Lake - EWB

1976. Sa - 1, April 2, Shepard - Butot (1976c)
- 4, April 7, Edmonton - SRJ, DVW
B - 10,000 to 20,000 nesting pairs, summer, Beaverhill Lake - Weseloh et al. (1977)
Em - 6, Aug. 18, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
Fc - 3, Sept. 24, McGregor Lake - RUB

1977. Sa - 1, April 10, High River - GWG
- 1, April 12, Galahad - KAS
Em - 30, May 15, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - 1 adult, June 24, Wembley - MCL

- 75, July 5, Beaverlodge - GEM
Fc - 20+, Oct. 3, Calgary - HWP, JOR
1978. Sa - 8, April 5, Bear Lake - ELC, GEC
- 1, April 12, Edmonton - PSA
- 4, April 13, Langdon - HWP, JOR
- April 21, Ft. McMurray - Gulley (1979)
Fc - 200+, Sept. 16, Milo - RUB
1979. Sa - 1, April 14, Carseland - WWS
- 50, April 16, Bear Lake - ELC, GEC, JVL
Fb - 1,500, Sept. 2, Milo - RUB
Em - 1, Sept. 4, Jasper N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 2, April 7, Cheadle - TSS

Bonaparte's Gull *(Larus philadelphia)*

This species arrives in Alberta in late April and early May. By the end of May and early June, the last spring migrants have left southern Alberta for their northern nesting grounds. Fall migrants return to southern Alberta in late July or August and may linger into November. There is an unusually late fall record for 1976.

There were unusual summer records for southern Alberta in 1972.

1971. B - 1, July 6, Dowling Lake - DVW
Fa - 300, Aug. 16, Gull Lake - CDB
Fc - 5, Oct. 19, Calgary - RIP
1972. Sa - 1, April 29, Delacour - GEA, WEB
Sb - 250+, May 8, Bittern Lake - WWS
Sc - 1 immature, June 8, Miquelon Lake - DVW
Eb - 32, June 16, lower Waterton River, Waterton Lakes N.P. - Sharp (1973)
- 250 (all second year immatures), June 29, Miquelon Lake - RIP, DVW
- 1 second year bird, July 3, Irricana - BIL, VGL, DVW
- 5, July 10, Waterton River, Waterton Lakes N.P. - Sharp (1973)
Fa - 1, July 26, Dry Island Buffalo Jump P.P. - WWS
Fb - 100's, Oct. 1, Elk Island N.P. - Park (1972)
Fc - 1, Nov. 12, Wabamun Lake - LOG
1973. Sa - 5, April 29, Lac des Arcs - CFNS
Sc - 25, May 27, Calgary - GRW
Eb - 20 (adults & fledged young), July 13, Buffalo Lake - JIW
Fa - 2, Sept. 5, Eagle Lake - RUB
Fc - 7, Oct. 28, Joseph Lake - LOG
- 2, Oct. 30, Little Bow Lake - EWB
1974. Sa - 1, May 8, Strathmore - LIM, DVW
Sa/Sb - 755, May 9-12, Hay-Zama Lakes - Gunn et al. (1975)
Sc - 1 adult & 6 immatures, May 29, Rockyford - LIM, DVW
Fa - 49, Sept. 8, Eagle Lake - RUB
Fb - 300, Oct. 20, Lamont - BEB, GEB
Fc - 1, Nov. 25, Edmonton - MAM, PAM
1975. Sa/Sb - 100's, May 2, Beaverhill Lake - DID
Sa - May 6, Syncrude lease - Sharp & Richardson (1976)
Sc - 2 adults & 28 immatures, May 28, Calgary - WWS
Fa/Fb - 2,000, Aug. 16, Gull Lake - RUB
Fc - 1, Nov. 25, Edmonton - MAM, PAM
1976. Sa - 1, April 24, Beaverhill Lake - DVW, LIW
- 1, April 27, Calgary - Butot (1976c)

- April 27, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fa - 1, Sept. 1, Calgary - RUB
F - 200, Nov. 3, Ft. Saskatchewan - BEB, GEB
Fc - 1 juvenile, Dec. 1, Wabamun Lake - DVW
1977. Sa - 3, May 4, Ft. MacKay - WWS
B - by Aug. 1 in the Ft. MacKay area all adults and young had left the nesting areas - WWS
Fa - 8, July 30, Eagle Lake - ADS, DOS, PHS
Fc - 195+, Nov. 3, Waterton Lakes N.P. - Merilees (1984)
1978. Sa - April 17, Ft. McMurray - Gulley (1979)
Fa - 8, Aug. 17, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 8, Nov. 4, Saskatoon Lake - ELC, GEC
- 1, Nov. 5, Calgary - ANS
1979. Sa - 20, April 30, Hermit Lake - GEC
- 2, May 5, Calgary - DAE, JOR
Sc - 30, May 24, Calgary - ANS
Fa - 50+, Sept. 9, Eagle Lake - HWP
Fc - 30, Oct. 28, Carseland - ANS
1980. Sc - 7, May 31, Calgary - ANS
Fa - 10, Aug. 9, Eagle Lake - ANS
Fc - 1, Nov. 6, Calgary - OLD

Mew Gull *(Larus canus)*

Sadler & Myres (1976) state that there were no satisfactory records for the 1960's. Spring migration data for Alberta in the 1970's is poor, but it appears that the species arrives in the Ft. McMurray area in late April (Gulley 1983a).

Observations in 1976 and 1977 in the Margaret Lake area of the Caribou Mountains strongly suggest nesting in Alberta.

Interesting fall migration data comes from the Ft. MacKay area in 1975 (Francis & Lumbis 1979). In southern Alberta, Mew Gulls have been seen as late as early November. It is also noteworthy that all records from southern Alberta are fall migration records except for one in 1974. In the Calgary area, this species is strongly associated with landfill sites. There were few observations away from these sites.

1971. Em - 2 immatures, Aug. 23, Calgary - Weseloh (1971)
- 1 immature (collected), Aug. 30, Calgary - Weseloh (1971)
- 1 adult, Sept. 8, Calgary - Weseloh (1971)
- 2 adults, Sept. 27, Calgary - Weseloh (1971)
- 1 immature, Sept. 28, Calgary - Weseloh (1971)
- 1 immature, Oct. 8, Calgary - Weseloh (1971)
- 1, Oct. 10, Calgary - HAV
- 1 adult, Nov. 3, Calgary - Weseloh (1971)
1972. Em - 1 adult, Sept. 13, Calgary - DVW
- 1 adult, Oct. 4 & 11, Calgary - VGL
- 1, Oct. 22, Vermilion Lakes, Banff N.P. - WWS
1973. Eb - several, early June, Eva Lake - Höhn & Burns (1975)
- 1, June 8, 10 & 28, Margaret Lake - Höhn & Burns (1975)
Em - 1 adult, Nov. 11, Calgary - BIL, VGL
1974. Em - June 7, Rockyford - DVW (Butot 1974)
Eb - 2, July 18, Rock Island Lake - Höhn & Burns (1975)

1975. Em - 2, May 9, northeast of Manning on the Peace River - GRG, PAG, MAH (Serr 1975b)
- 1 adult, Aug. 13, Edmonton - Weseloh & Weseloh (1975a)
- 2 adults & 4 immatures, Aug. 18, Edmonton - ROB, DVW
Fa-Fc - Aug. 3 to Oct. 20, Syncrude lease - Sharp & Richardson (1976); 263 birds were observed during fall migration but none in the spring of 1975 (86% were young of the year; highest number of birds was 52 on Sept. 26)
1976. Eb - 2 apparent pairs diving at observers therefore strongly suggesting nesting, June 28, small lake approximately 1.6 km from Margaret Lake - Höhn (1976)
- 1 adult, July 12, Zama City - EVC, JLC
Fa - Aug. 2, Ft. Chipewyan - Serr (1977a)
Em - 1, Sept. 6, Jasper N.P. - Holroyd & Van Tighem (1983)
- Sept. 12 & 21, Edmonton - DVW (Serr 1977a)
- 1 adult, Sept. 23-27, Calgary - McNicholl (1977)
1977. Em - 1, May 1, Talbot Lake, Jasper N.P. - Karasiuk et al. (1978)
Eb - 6, July 16, Ft. McMurray - Gulley (1983a)
- 1 young able to fly, July 26, Margaret Lake area - Höhn & Weseloh (1978)
Em/Fa - 1 adult, Aug. 27, Edmonton - Thormin (1977a)
1978. Sa-Sc - 47 birds from 8 observations, April 30-May 16, Ft. McMurray area - Gulley (1983a)
Em - 4, May 27/28, Grande Prairie - Wiseley (1979b)
Eb - 2 young with adults, July 6, near Bocquene Lake - ERK
1979. Sa/Eb - 50 birds from 7 observations, May 8 to Aug. 6, Ft. McMurray area - Gulley (1983a)
Em - 2 (photographed), Sept. 7, Banff N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 1, April 17, Ft. McMurray - Gulley (1983a)
Fa - 1, Aug. 19, Ft. McMurray - Gulley (1983a)
Em - 2, Sept. 7, Lake Minnewanka, Banff N.P. - Steeves (1981)

Ring-billed Gull *(Larus delawarensis)*

Spring migrants arrive in the last half of March, earlier than indicated by Sadler & Myres (1976) and Salt & Salt (1976).

Extralimital nesting colonies were found at Pakowki Lake, St. Mary's Reservoir, Stirling Lake, Murray Lake, Keho Lake, Frank Lake, Chip Lake, Ross Lake, Shanks Lake and Irricana. Weseloh (1981) describes a Franklin's Gull, probably paired with a Ring-billed Gull, nesting at Miquelon Lake. The pair was observed defending a common, active nest in a California/Ring-billed Gull colony. The Franklin's Gull did all the observed incubation and was in attendance at the nest in both 1976 and 1977.

The last fall migrant records for the decade range from November 3 to 25, except for the unusually late record in 1976.

1971. Sa - 4, March 27, Calgary - RIP
Sb - 450+, April 2, Calgary - WWS
Fb - 3,000, Sept. 25, Calgary - WGM (Houston 1972a)
Fc - 131 adults, Nov. 3, Calgary - DVW
1972. Sa - 2, March 18, Shepard - RIP
- 3 adults, March 18, Gladys - BIL, VGL
B - 10-12,000, May 11-13, Lake Newell - VGL (nesting on two islands)
Fb - 8,100, Oct. 12, Calgary - VGL

Fc - 6, Nov. 18, Calgary - HAV
- 14, Nov. 19, Wabamun Lake - LOG
1973. Sa - 1, March 7, Calgary - RAW
Sb - 300, April 22, Edmonton - GWG, LOG
B - 1, June 10, Margaret Lake - Höhn & Burns (1975)
Fc - 2, Nov. 5, Calgary - VGL
1974. Sa - 1, March 24, Lethbridge - HES
- 1, March 24, Calgary - WWS, CAW, CRW
Sb - 260, April 14, Edmonton - GWG, LOG
Fc - 1, Nov. 14, Calgary - HWP
1975. Sa - 28, March 29, Calgary - RIP
Eb - colony, May 30, St. Mary's Reservoir - Beswick et al. (1975)
- colony, June 7, Ross Lake - Berezay et al. (1975)
- colony, June 11, Shanks Lake - Yuill et al. (1975)
- small colony, July 1, Pakowki Lake - Smith & Wallis (1976)
- 1, July 11, Jasper N.P. - DVW, LIW
Fb - 800, Nov. 2, Edmonton - RIP
Fc - 27, Nov. 13, Edmonton - LIM
- 4, Nov. 19, Calgary - HWP
1976. Sa - 1, March 28, Ensign - RUB
- 1, March 31, Edmonton - DVW, LIW
- April 8, Ft. McMurray - Gulley (1979)
Sb - 750, April 17, Edmonton - MRB, DVW, LIW
B - 6,091 nests, Lake Newell - Weseloh (1978)
- 5,184 nests, Dowling Lake - Weseloh (1978)
- 10,087 nests, Miquelon Lake - Weseloh (1978)
Eb - 856 nests, St. Mary's Reservoir - Weseloh (1978)
- 218 nests, Stirling Lake - Weseloh (1978)
- 747 nests, Murray Lake - Weseloh (1978)
- 4,296 nests, Keho Lake - Weseloh (1978)
- 1,017 nests, Frank Lake - Weseloh (1978)
- 4,812 nests, Irricana - Weseloh (1978)
Fc - 1, Dec. 11, Calgary - ANM
1977. Sa - 15, March 23, Calgary - HWP
- 1, March 27, Edmonton - LAC
B - 2,000 nests, Buffalo Lake - Weseloh (1978)
- 5,232 nests, May 9 & 10, Lake Newell - Nordstrom (1978b)
Eb - 249 nests, Chip Lake - Weseloh (1978)
Fc - 500, Nov. 12, Calgary - PES
1978. Sa - 8, March 22, Calgary - GES
- 5, March 26, St. Albert - PED
Fc - 5, Nov. 5, Milo - RUB
- 350, Nov. 5, Calgary - ANS
1979. Sa - 2, March 19, Calgary - DPD
Sb - 1,000+, April 15, Shepard - MIR
Fc - 8, Nov. 18, Calgary - ANS
1980. Sa - 14, March 22, Calgary - HWP
Fc - 1 adult, Nov. 23, Calgary - CFNS
- 2, Nov. 25, Edmonton - PSA

California Gull *(Larus californicus)*

California Gulls arrive during the last two weeks of March. This is earlier than noted by Sadler & Myres (1976) and Salt & Salt (1976).

Extralimital nesting colonies found during the 1970's include those at Little Bow Lake, Frank Lake, St. Mary's Reservoir, Stirling Lake, Murray Lake, Keho Lake, Ross Lake, Shanks Lake and Chip Lake.

In the fall, this species starts to migrate in August, with the last migrants usually recorded in late October or early November.

1971.	Sa	- 1 adult, March 28, De Winton - LAM, WGM, MIP, RIP
		- 6, March 28, Calgary - DVW
	Sb	- 250+, April 2, Calgary - WWS
	Fc	- 1 adult, Oct. 16, Calgary - DVW
1972.	Sa	- 12, March 17, Irricana - GEF
	Eb	- 50+ pairs, May 21, Little Bow Lake - HWP, LIP
	Fc	- 10, Nov. 4, Calgary - WWS
1973.	Sa	- 1 adult, March 16, Brant - VGL
	Fc	- 5, Oct. 28, Joseph Lake - LOG
1974.	Sa	- 2, March 22, Calgary - DVW
	Sb	- 440, April 14, Edmonton - GWG, LOG
	B	- 1, June 21, Utikuma Lake - Höhn & Burns (1975)
		- 7, July 4, Pitchimi Lake - Höhn & Burns (1975)
		- 1, July 8, Wentzel Lake - Höhn & Burns (1975)
	Fc	- 3, Nov. 8, Edmonton - JIW
1975.	Sa	- 1, March 24, Waterton Lakes N.P. - KEB
	Eb	- colony, May 30, St. Mary's Reservoir - Beswick et al. (1975)
		- colony, June 7, Ross Lake - Berezay et al. (1975)
		- colony, June 11, Shanks Lake - Yuill et al. (1975)
	B	- small colony, July 1, Pakowki Lake - Smith & Wallis (1976)
	Eb	- 39, July 10, Hinton - DVW, LIW
		- colony at south end of Frank Lake, July 11 - RUB
		- 53, July 11, Jasper N.P. - DVW, LIW
	Fc	- Oct. 20, Ft. MacKay - Francis & Lumbis (1979)
1976.	Sa	- 1, March 23, Calgary - HWP
	Sb	- 750, April 17, Edmonton - MRB, DVW, LIW
	B	- 1,205 nests, Irricana - Weseloh (1978)
		- 565 nests, Lake Newell - Weseloh (1978)
		- 1,845 nests, Miquelon Lake - Weseloh (1978)
		- 824 nests, Dowling Lake - Weseloh (1978)
	Eb	- 1,580 nests, St. Mary's Reservoir - Weseloh (1978)
		- 962 nests, Stirling Lake - Weseloh (1978)
		- 151 nests, Murray Lake - Weseloh (1978)
		- 1,459 nests, Keho Lake - Weseloh (1978)
		- 311 nests, Frank Lake - Weseloh (1978)
		- 1,240 nests, Chip Lake - Weseloh (1978)
	Fc	- 10, Nov. 11, Red Deer - WWS
1977.	Sa	- 21, March 23, Calgary - HWP, JOR
	Sb	- 400, April 3, Edmonton - AAJ, SAJ
	Eb	- 9, May 29, Beaverlodge - BBM, GEM
	B	- 952 nests, Buffalo Lake - Weseloh (1978)
		- 239 nests, Joseph Lake - Weseloh (1978)
		- 250+ nests, June 15, Egg Island (Lake Athabasca) - DVW
		- 139 nests, June 15, Namur Lake - DVW
	Fc	- Nov. 12, Calgary - Butot (1978a)
1978.	Sa	- 4, March 22, Calgary - GES

Fc - Nov. 6, Ft. McMurray - Gulley (1979)
1979. Sa - 6, April 1, Shepard - ELH
- 40, April 1, Calgary - ANS
1980. Sa - 1, March 26, Cheadle - TSS

Herring Gull ***(Larus argentatus)***

The first spring migrants arrive from March 18 to April 10, with peak numbers occurring in the third week of April in southern Alberta. This species occurs in smaller numbers during the extended fall migration, with birds observed from early August to the third week of November. Pinel (1986) illustrates the dramatic increase of this species in the Calgary area.

1971. Sa - 1 adult, April 1, Calgary - ROL, DVW
Sc - 10, April 27, Shepard - ROL, DVW
Fa - 1 adult, Sept. 15, Calgary - DVW
Fc - 1, Oct. 24, Calgary - RIP
1972. Sa - 1, March 20, Shepard - DVW
Sb - 63, April 20, Janet - DVW
Eb - 1 pair, 1 pair & 6 pairs nesting on Lesser Slave Lake, Lower Therien Lake & Lac la Biche respectively, summer - Vermeer (1973d)
- 2, June 27, Calgary - DVW
Fa - 1 immature, Aug. 21, Calgary - WWS
Fb - 30, Sept. 3, Cold Lake - WWS, CRW
Fc - 2 immatures, Oct. 12, Calgary - VGL
1973. Sa - 2 adults, March 23, Shepard - VGL
Sc - 1 immature, April 30, Calgary - HWP, LIP, BIR, CAR
- 2, May 10, Edmonton - LOG
Eb - 1, June 22, Calling Lake - GWG, LOG
- 3-4 immatures, summer, Sturgeon Lake - KVT, CAW
Fc - 1 immature, Oct. 28, Carseland - HAV
1974. Sa - 2 adults, April 7, Edmonton - DEG, GCG
- 5 adults, April 13, Calgary - HAV
Sb - 27, May 4, Edmonton - GWG, LOG
Sc - 1, May 17, Edmonton - GWG, LOG
Fa - 3, Aug. 25, Beaverhill Lake - RIP
1975. Sa - 1, April 10, Calgary - HWP
- 16, April 13, Wabamun Lake - RAE
Sc - 3, April 29, McGregor Lake - WWS
B - 9 nests, some with eggs & some with chicks, June 22, Rock Island Lake - ROB (Höhn & Burns 1976)
Fc - 1, Nov. 19, Calgary - HWP
1976. Sa - 1, April 3, Carseland - RUB
Sc - 9, April 27, Calgary - HWP
- 9, April 27, Stony Plain - DVW
- 40, April 27, Grande Prairie - YVM, DVW
Eb - 20+, June 9, Cold Lake - WWS
- nesting, summer, Lesser Slave Lake - Bradley (1980a)
- 3, July 13, Upper Kananaskis Lake - Salt (1976)
- 1, July 16, Lower Kananaskis Lake - Salt (1976)
Fa - 2, Aug. 29, Langdon - HWP
Fc - 5, Nov. 21, Calgary - CFNS
- 1, Nov. 21, Sylvan Lake - MAO
1977. Sa - 7, March 23, Calgary - HWP, JOR
Sc - 3, April 23, Calgary - HWP
- 16, April 23, Bear Lake - KAA

Eb - 3, May 29, Beaverlodge - BBM, GEM
B - 26 nests, June 15, Namur Lake - DVW
Eb - 1, July 29, Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
Fa - 1, Aug. 8, Calgary - ELH
Fc - 1 adult, Nov. 26, Waterton Lakes N.P. - Merrilees (1984)
1978. Sa - 1 adult, March 24, Calgary - DPD
Sc - 1, May 6, Calgary - JOD, JMP
B - 603, May 27/28, Ft. McMurray - Wiseley (1979b)
Fa - 1 immature, Sept. 9, Calgary - HWP
Fb - 196, Oct. 16, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 1 immature, Nov. 5, Milo - RUB
1979. Sa - 1, March 18, Wabamun Lake - RAE
- 3, April 5, Calgary - HWP, JOR
Sb - 200+, April 21, Calgary - ANS
Fc - 2 immatures, Oct. 28, Carseland - ANS
1980. Sc - 4, April 30, Calgary - CRW, RAW
B - 994, May 24/25, Ft. McMurray - Wiseley (1981)

Thayer's Gull *(Larus thayeri)*

This gull has recently been recognized as a full species (Eisenmann et al. 1973). There are two previous specimen records for the province: a specimen in the Royal Ontario Museum collected in Alberta in 1906 (letter from W.E. Godfrey to D.V. Weseloh) and a bird collected in October 1928 at Beaverhill Lake (Salt & Salt 1976). Lister (1979) states that this second bird was collected on October 22, 1926. The third to twelfth records for Alberta are listed below.

1972. Ev - 1 second year bird (collected), May 19, Calgary - VGL, RAO, DVW (Weseloh & Lang 1973; Pinel & Butot 1978)
1975. Ev - 1 adult, April 29, McGregor Lake - WWS
- 11 adults reported on five dates, Sept. 26 to Oct. 12, Syncrude lease - Sharp & Richardson (1976)
- 1 immature, Oct. 11 & 12, Lesser Slave Lake - DVW, LIW
- 1 adult, Oct. 2, Edmonton - DVW
- 1 immature (collected), Oct. 27, Edmonton - Weseloh (1977a)
1976. Ev - 1 immature (collected), April 21, Edmonton - Weseloh (1977a)
- 3 adults, Sept. 6, Jasper N.P. - DVW, LIW (Weseloh 1977a)
- 1 immature, Nov. 1 & 2, Lower Kananaskis Lake - Salt (1976)
- 3 immatures, Nov. 2 & 3, Grande Prairie - DVW

Iceland Gull *(Larus glaucoides)*

The first verified record of this species in Alberta occurred in 1975. There was one previous hypothetical record for Calgary in April of 1957 (Höhn et al. 1958).

1975. Ev - 1 immature (photographed), Oct. 15, Edmonton - DVW
1979. Ev - 1 adult, April 29, Edmonton - TWT (Gollop 1979a)

Iceland Gull (*Larus glaucoides*)

The first verified record of this species in Alberta occurred in 1975. There was one previous hypothetical record for Calgary in April of 1957.

1975. Ev - 1 immature (photographed), Oct. 15, Edmonton - DVW
1979. Ev - 1 adult, April 29, Edmonton - TWT (Gollop 1979a)

Glaucous-winged Gull (*Larus glaucescens*)

From a summary of all data available, the records below for the decade are the sixth to eighth for the province.

1972. Ev - 1 adult, May 3 & 4, Calgary - HAB, VGL, RAO, DVW, PHW (Weseloh & Lang 1973; Pinel & Butot 1978)
1976. Ev - 1 immature, Oct. 2, Legal - WWS
1980. Ev - 1 second year bird, April 5, Calgary - DAE

Glaucous Gull (*Larus hyperboreus*)

There are only five records previous to 1970 for Alberta. During this decade there were twenty reports known to the authors, all of which are listed below.

Salt & Salt (1976) gave incorrect dates for the 1972 observations, the correct dates are listed below. Assuming that the two 1977/1978 winter records are of the same bird, this would be the second winter record for the province. The large number of birds observed in 1975 in the Ft. MacKay area is noteworthy.

1972. Em - 1 second year bird, March 28 to April 12, Shepard - Weseloh & Owens (1973), Pinel & Butot (1978)
1974. Em - 1 second year bird, April 25, Eagle Lake - HWP, CAR (Pinel & Butot 1978)
1975. Em - 1 immature, May 27, Cold Lake - GRG, MAH (Serr 1975b)
Eb - up to 8 birds, July 24 to Sept. 2, Ft. MacKay - Francis & Lumbis (1979)
- 18 birds on 14 occasions, July 24 to Oct. 12, Syncrude lease - Sharp & Richardson (1976)
Em - 1 immature, Oct. 31, Calgary - WWS
- 1 second winter birds, Nov. 5-7, Calgary - HWP (Pinel & Butot 1978)
1976. Em - 1 adult, Aug. 5, Lake Claire - RAE (Serr 1977a)
- 1 immature, Oct. 6, Ft. Chipewyan - RAE (Serr 1977a)
- 1, Nov. 13, Edmonton - DVW (Serr 1977a)
1977. Em - 1 adult, April 3, McGregor Lake - RUB
- 1, May 16, Ft. McMurray - Gulley (1983a)
Ew - 1, Dec. 17, Wabamun Lake - WWS
1978. Ew - 1, Feb. 26, Wabamun Lake - JDL, TWT
Em - 1, April 29, May 6 & 24, Ft. McMurray - Gulley (1983a)
- 1 adult, May 3, McGregor Lake - GRW
1979. Em - 11 sightings of single birds, April 26 to June 1, Ft. McMurray - Gulley (1983a)
1980. Em - 1, April 22 & 23, Edmonton - Gollop (1980a)
Eb/Em - 4 single birds & 2 birds observed between May 30 & Oct. 21, Ft. McMurray - Gulley (1983a)

Black-legged Kittiwake (*Rissa tridactyla*)

The first verified report of this species for the province occurred in 1976. There are three records for the decade listed below. There is also a specimen of an adult female in the Provincial Museum of Alberta from Honeymoon Lake, Jasper National Park acquired on October 12, 1983.

1976. Ev - 1 immature male, found dying, Nov. 13, Calgary - Pinel & Riddell (1977a)
1977. Ev - 1 adult, July 17, Beaverhill Lake - RAE (Smith & Kuyt 1983)
1979. Ev - 1 immature , found dead, Dec 23, Sundance Cooling Pond south of Wabamun Lake - Smith & Kuyt (1983)

[Ross' Gull *(Rhodostethia rosea)*]

The first hypothetical record for Alberta is reported below.

1974. Ev - 1 immature, Aug. 25, Beaverhill Lake - RIP (Houston & Houston 1975)

Sabine's Gull *(Xema sabini)*

This species is a scarcely recorded migrant in Alberta. It appears to be a late spring migrant recorded from the end of May to the end of June, most frequently at lakes in central Alberta. An unusually large flock was observed at Beaverhill Lake in 1972. Since 1972, all the records for the rest of the decade are fall observations. In southern Alberta, the fall passage occurs from early September to early October. Wolford (1972) and Salt & Salt (1976) both noted the scarcity of fall records prior to 1972.

1971. Ev - small flock out of which 3 adult females were collected, June 3, Cooking Lake - ASG, TEN, JIW (Wolford 1972)
1972. Ev - 1, May 30, Wabamun Lake - LON (Taylor 1972)
  - 41, June 3, Beaverhill Lake - DID, PAT (Taylor 1972)
  - 1, June 30, Kirkpatrick Lake - WIG (Taylor 1972)
  - 3 adults, Sept. 17, Banff N.P. - WAN (Salt & Salt 1976)
  - 1 adult, Oct. 1, Frank Lake - FAN (Pinel & Butot 1978)

1973. Ev - 1, Sept. 8, Bassano - CRA, ACF, TWT (Asher 1974)
1976. Ev - 1, Aug. 14, Calgary - PES
  - 1, Aug. 27, mouth of the Firebag River - Francis & Lumbis (1979)
  - 1 adult & 1 immature, Sept. 6 & 7, Lower Kananaskis Lake - Salt (1976)
  - 1 immature, Sept. 13, Ft. Chipewyan - RAE (Serr 1977a)

1977. Ev - 1 adult, Sept. 4, Frank Lake - CEH, RIH (Pinel & Butot 1978)
  - 1 immature, Sept. 28, Sounding Lake - WWS, CAW

1978. Ev - 1 adult in breeding plumage, Sept. 3, Eagle Lake - RIK
  - 1 immature, Sept. 8, Calgary - RIK
  - 1, Oct. 7, Jasper Lake, Jasper N.P. - Holroyd & Van Tighem (1983)

1980. Ev - 1 adult, Oct. 5, Upper Waterton Lake, Waterton Lakes N.P. - TEH

[Ivory Gull *(Pagophila eburnea)*]

There is one hypothetical record for the decade which is given below. Previously, there were two hypothetical records for 1961 from near Edmonton and Rocky Mountain House (Sadler & Myres 1976).

1972. Ev - 4, June 5, west of Beaverlodge - MOS (Houston 1972d)

Caspian Tern *(Sterna caspia)*

This species is a scarce transient in southern Alberta. It is reported during the summer from late June to mid-September. Höhn (1972a) reports about 20 pairs nesting at Lake Athabasca in 1971. Weseloh & Cocks (1979) report 47 nests in 1977 for the same colony. These are the only documented accounts of this colony since 1952.

1971. B - about 20 pairs nesting, July 2, Egg Island (Lake Athabasca) - Höhn (1972a)
1973. Ev - 1 adult, Aug. 26, Carseland - IRH (Pinel & Butot 1978)
1976. Ev - 1 adult, June 20, Ft. McMurray - Gulley (1983a)
- 2 & 3 birds, June 22 & 26, Lac la Biche - KAS
- 1, June 30, Lower Kananaskis Lake - Salt (1976)
1977. B - 59 birds & 47 nests, June 15, Egg Island (Lake Athabasca) - Weseloh & Cocks (1979)
B - 1 young flying with its parents, Aug. 8, mouth of the Birch River - ERK
Ev - 1, Sept. 11, Beaverhill Lake - TWT
1979. Ev - 1 adult, July 7, Calgary - CEH, RIH
- 1, Sept. 16, Calgary - JUG, MTM
1980. Ev - 2, June 22, Pakowki Lake - CAW

Common Tern *(Sterna hirundo)*

Records for the decade indicate that the first Common Terns arrive from April 25 to May 6, and most have left the province by mid-September. There are only three years in which the last migrants left in October. This contrasts with Salt & Salt (1976) who state that Common Terns stay late in the fall with a few remaining past the end of October.

Fox (1976) found that eggshell quality was an important determinant of hatching success. Abnormalities in shell structure and chemical composition in a low DDE contaminated population studied at Buffalo Lake were responsible for shell damage, which resulted in egg disappearance, and death through hypoxia. There were also indications that low levels of DDE contamination had detrimental effects on the visual perception of chicks. Eggshells had a mean thickness index which was 3.8% lower than the pre-1945 mean for this geographical population.

1971. Sa - 1, May 2, Bruce Lake - ISS, TSS
B - 10 nests on lake shore, May 29, Eagle Lake - HWP, CAW
- 78 nests, June 3, Lac Ste. Anne - KMM
Fc - 1, Sept. 17, Calgary - RIP
1972. Sa - 6, April 30, Strathmore - JEC, JOC
B - 226 nests with 473 eggs, summer, Buffalo Lake - Fox (1976)
Fc - 1, Oct. 1, Calgary - FAN
1973. Sa - 4, May 2, Namaka Lake - WWS, CAW
B - 1 nest on lake shore, May 26, Eagle Lake - NGK
- 300 adults "nesting", July 13, Buffalo Lake - JIW
Em/Fc - 1, Oct. 2, Jasper N.P. - BEB, GEB (Lang 1974a)
1974. Sa - 1, April 29, Calgary - HWP, CAR
Eb - 4, July & Aug., Chain Lakes P.P. - Crack & Danielson (1974c)
Fc - 1, Oct. 6, Edmonton - MAM, PAM
- 1, Oct. 19, Eagle Lake - HWP, LIP
1975. Sa - 2, May 1, Irricana - TSS
- 2, May 6, Mildred Lake - Sharp & Richardson (1976)

B - small colony, July 1, Pakowki Lake - Smith & Wallis (1976)
- 30 pairs (some with chicks), July, Burstall Lake (Canadian Shield) - Bishoff & Fyfe (1976)
- 15 pairs, July, Cornwall Lake (Canadian Shield) - Bishoff & Fyfe (1976)
- 20 pairs, July, St. Agnes Lake (Canadian Shield) - Bishoff & Fyfe (1976)
Fc - 1, Sept. 13, Eagle Lake - RUB
1976. Sa - 1, April 25, Beaverhill Lake - DVW, LIW
B - 10 nests, May 16, Lake Newell - ROB, DVW
- 300 active nests, summer, Beaverhill Lake - Weseloh et al. (1977)
Em - 13, Aug. 26, Miette River, Jasper N.P. - Holroyd & Karasiuk (1977)
- Sept. 6, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Em/Fb - 150-200 in a snowstorm, Sept. 6 & 7, Lower Kananaskis Lake - Salt (1976)
Fc - 3, Sept. 11, Calgary - HWP
- 1, Sept. 16, Beaverhill Lake - MRB, TWT, ALW, DVW, LIW
1977. Sa - 1, May 1, Calgary - ANS
- 3, May 1, Madden - SEA, JMP
- May 9, Ft. McMurray - Gulley (1979)
Fc - 1, Aug. 28, Frank Lake - RUB
1978. Sa - 6, April 28, Beaverhill Lake - JAG, RAG
- 3, April 29, Nier - JMP
Em/Fc - 25, Sept. 6, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
1979. Em/Sa - May 6, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Em - 6, May 11, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Fc - 6, Sept. 12, Cochrane Lake - SFJ
1980. Sa - 1, May 3, Calgary - ANS
Fc - 5, Sept. 7, Calgary - ANS

Arctic Tern *(Sterna paradisaea)*

This species is a rare transient in Alberta. Of interest is the Francis & Lumbis (1979) report of suspected breeding southeast of Richardson Lake in 1975.

Sadler & Myres (1976) state that there are no satisfactory records for the 1960's.

1972. Ev - 2, Sept. 3, Cold Lake - WWS, CRW
1973. Ev - 1, June 7 & 13, Winagami Lake - WWS
1975. Eb - 12 birds (including 2 immatures) suspected of breeding southeast of Richardson Lake - Bishoff & Fyfe (1976), Francis & Lumbis (1979)
1976. Ev - 2, Aug. 9, Ft. Chipewyan - RAE
1978. Ev - 2, May 27/28, Edmonton area - Wiseley (1979b)

Forster's Tern *(Sterna forsteri)*

Because Forster's Terns nest uncommonly and locally in southern Alberta, the migration data that we have is not comprehensive. It appears that they arrive in early May and leave by the third week in September.

During the decade, nesting was recorded at Stobart Lake, Beaverhill Lake, Fawcett Lake, Pakowki Lake, Cold Lake and Lesser Slave Lake. There is also an exceptional summer record from the Birch River delta in 1978.

1972. Sa - 1, May 9, Elk Island N.P. - Burns et al. (1986)
Eb - two nests placed two feet apart on muskrat *(Ondatra zibethica)* house with 3 eggs & 2 eggs, June 20, Stobart Lake - BIM
Em - 8-12 birds, Sept. 20 & 21, Waterton River, Waterton Lakes N.P. - Sharp (1973)
1973. Sa - 3, May 6, Beaverhill Lake - JIW
Eb - nest with 2 eggs, June 23, Fawcett Lake - BRN
- 2-3, June 27, Namaka Lake - VGL
F - 2, Aug. 26, Jackfish Lake near Duffield - LOG
1974. Sa - 1, May 4, Tofield - JIW
Em - 3, May 18, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Sc - 3, May 20, Dillberry Lake P.P. - GWG, LOG
Eb - 5, July 3-5, Dillberry Lake - Renewable Resources Consulting Ltd. (1975)
Em - 1, Aug. 25, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 2, Sept. 8, Tofield - DID
1975. Eb - 2, May 27, Cold Lake - GRG, PAG, MAH
- 1 adult & 1 immature, July 1, Pakowki Lake - Smith & Wallis (1976)
- fledged juveniles being fed, Aug. 3, Tofield - JIW
1976. Eb - 8+ nests, June 10, Cold Lake P.P. - WWS
- colony of 10+ birds, June 28, Lesser Slave Lake - WWS
1978. Sa - 1 adult male, May 11, Atmore - PMA specimen
- 3, May 13, Namaka Lake - HWP
Eb - 20, May 23, Beaverhill Lake - RUB
- 3 young flying with 3-4 adults, Aug. 13, Birch River delta - ERK
Fc - 1, Sept. 24, Carseland & Eagle Lake - CFNS
1979. Sa - 1, May 13, Bruce Lake - JOR
1980. Fc - 1, Sept. 14, Eagle Lake - CFNS

Black Tern *(Chlidonias niger)*

Black Terns arrive in Alberta from May 7 to 18, and leave the province by late August and early September. This species is very local in much of northern Alberta. Höhn (1972a) suggests that it is absent from the Canadian Shield north of Lake Athabasca.

1971. Sa - 2, May 16, Calgary - SEA, KSC
Eb - 3 pairs, July 20, Maskinonge, Waterton Lakes N.P. - Sharp (1973)
Fc - 1, Aug. 16, Gull Lake - CDB
1972. Sa - 1, May 8, Gwynne - WWS
Fc - 1, Aug. 16, Strathmore - CNF
1973. Sa - 1, May 14, Edmonton - WWS
Em - 1, May 26, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
Fc - 15, Sept. 1, Beaverhill Lake - LOG
1974. Sa - 6, May 12, Beaverhill Lake - DID
B - 3 pairs nesting, late June, Beauvais Lake - Crack & Danielson (1974b)
- nesting on pond in Police Outpost P.P. - Crack & Danielson (1974a)

Fc - 1, Sept. 22, Tofield - DID, MAH
1975. Sa - 6, May 8, Tofield - DID
- 1, May 11, Cardinal Lake - RIP
- 2, May 11, Langdon - HWP
- May 14, Ruth Lake - Sharp & Richardson (1976)
B - 2 colonies of 30 & 50 birds, July, Richardson Lake (Canadian Shield) - Bishoff & Fyfe (1976)
Fc - Aug. 26, Ruth Lake - Sharp & Richardson (1976)
1976. Sa - 1, May 8, Eagle Lake - HWP
- 2, May 13, Big Lake - ALW
Fc - 1, Aug. 27, Ft. Chipewyan - RAE
- 2, Aug. 29, Langdon - HWP
Em/Fc - 2 immatures, Sept. 7, Lower Kananaskis Lake - Salt (1976)
1977. Sa - 1, May 7, Keoma - ANS
- 2, May 9, Galahad - KAS
- 3, May 14, Ft. MacKay - WWS
Em - 1, May 28, Talbot Lake, Jasper N.P. - Karasiuk et al. (1978)
1978. Sa - 6, May 17, Wandering River - Ebel (1978b)
- 6, May 18, Balzac - ELH, JOH
- 4, May 19, Wembley - ELC, GEC
Fc - 8, Sept. 10, Namaka Lake - RUB
1979. Sa - 1, May 17, Bottrel - SFJ
- 3, May 19, Wembley - ELC
Sa/Sb - 100, May 17, Chestermere Lake - KEM, LLM
Em - 1, May 27, Talbot Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - 4, June 20, Banff N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 4, May 18, Cheadle - TSS
Eb - 1, June 7, Snake Indian Lakes, Jasper N.P. - Holroyd & Van Tighem (1983)

FAMILY: ALCIDAE

Ancient Murrelet *(Synthliboramphus antiquus)*

The first verified record for Alberta is given below.

1975. Ev - 1 adult male, Oct. 25, Edmonton - Weseloh & Weseloh (1978); now in PMA collection.

FAMILY: COLUMBIDAE

Rock Dove *(Columba livia)*

Kondla (1978) reports cliff nesting in the badlands at Dinosaur Provincial Park. Previous cliff nests have been reported by Salt & Wilk (1966) at Rosebud and by Sadler & Myres (1976) near Medicine Hat and at Writing-on-Stone Provincial Park.

Lang (1973c) provides an unusual account of an adult Rock Dove swimming in the Bow River in Calgary.

Band-tailed Pigeon *(Columba fasciata)*

Sadler & Myres (1976) list three records for the previous decade. Salt & Salt (1976) give an additional record for that decade of a bird observed in July of 1968 near Patricia Lake in Jasper National Park.

The sightings for the 1970's are listed below. All observations were of single birds seen from early May to early August.

1971.	Ev	- 1, July 10, Sheerness - Barnard (1972)
1973.	Ev	- 1, June 27, Whistler Mt., Jasper N.P. - Salt & Salt (1976)
1974.	Ev	- 1, May 6, Milo - EWB
1975.	Ev	- 1, May 28, Calgary - WIM (Pinel & Butot 1978)
1976.	Ev	- 1, May 3, Calgary - GES (Pinel & Butot 1978)
		- 1, Aug. 2, northeast of Edson - RIC (Serr 1977a)
1979.	Ev	- 1, June 24, Erskine - Lohr (1981)
1980.	Ev	- 1, May 17, Cochrane - PES (Gollop 1980a)
		- 1, May 21, Blakiston Beaver Pond, Waterton Lakes N.P. - TEH

Mourning Dove *(Zenaida macroura)*

Records for the decade indicate that Mourning Doves arrive in Alberta from April 1 to 23, mostly as single birds. Flocks are observed during fall migration, particularly in September. The last birds are generally seen in Alberta between mid-September and mid-October.

There are extralimital records for the Ft. McMurray area during the last half of the decade. The winter records for Wabamun Lake and St. Albert in 1974, and the late fall record for Grande Prairie in 1977 are noteworthy. Kondla & Pinel (1973c) discuss the frequency of ground nesting in the prairie provinces.

1971.	Sa	- 1, April 11, Gladys - VGL
	Fc	- 1, Oct. 11, Calgary - BIL, VGL
1972.	Sa	- 1, April 23, Chestermere Lake - HAV
	Fb	- 31, Sept. 3, Carseland - BIL, VGL
	Fc	- 4, Sept. 17, Calgary - GEA, HWP, CAR
1973.	Sa	- 1, April 17, Calgary - HWP, CAR
	Eb	- 1, May 14, Winagami Lake - WWS
	Fb	- 25, Sept. 23, Bassano - CFNS
	Fc	- 1, Sept. 28, Edmonton - JWB
1974.	Sa	- 1, April 2, Rockyford - JOC
	B	- 50, May 27, Empress area - WWS
	Fc	- 1, Oct. 13, Bindloss - WWS
	Ew	- 1 seen regularly near Wabamun Lake in early Dec., and 1 in St. Albert on Dec. 29 - BOL (per Edmonton Journal)
1975.	Sa	- 1, April 23, Calgary - BIL
	Fb	- 23, Aug. 6, Pakowki Lake - RUB
	Fc	- 3, Sept. 21, Drumheller - RUB
1976.	Sa	- 1, April 4, Calgary - LOB, BIL
	Eb	- 1, June 20, Ft. McMurray - Gulley (1983a)
	Fc	- 1, Oct. 24, Grande Prairie - WAM
		- 1, Nov. 5, Galahad - KAS
1977.	Sa	- 1, April 1, Calgary - GES
	Fc	- 1, Oct. 15, Banff N.P. - JMP
		- 1, Nov. 22, Grande Prairie - WAM
1978.	Sa	- 1, April 16, Shepard - JOD, JMP

Eb - 1 May 23 & 28, Ft. McMurray - Gulley (1983a)
Fc - 3, Sept. 13, Millarville - HWP
1979. Sa - 2, April 21, Priddis - RUB
Eb - 2, May 19, Ft. McMurray - Gulley (1983a)
- 1, May 25, Ft. McMurray - Gulley (1983a)
Fb/Fc - 16, Sept. 2, Carseland - RUB
1980. Eb - 2, May 19, Ft. McMurray - Gulley (1983a)
Em - 1, Aug. 10, Ft. McMurray - Gulley (1983a)
Fc - 1, Sept. 5, Calgary - OLD

FAMILY: CUCULIDAE

Black-billed Cuckoo *(Coccyzus erythropthalmus)*

Records of this secretive species are too few to give reliable migration dates, but it appears that they arrive in mid-June and leave during August.

The main areas of population seem to be the valleys of the lower Milk River and the lower Red Deer River. All reports known to the authors, outside of the river valleys in eastern Alberta during the nesting season, are recorded below.

1972. Sa - 1, June 17, East Coulee - ETJ
Sa/Eb - 1 bird observed on June 10, 28 & 30, Elk Island N.P. - Burns et al. (1986)
Eb - 1 found dead, July 4, Calgary - PMA specimen
B - 1, July 13, Elnora - WWS
Eb - 1 adult male, July 13, Beaverhill Lake - MIH (PMA specimen)
1973. Sa/Em - 1, June 17, Sherwood Park - CAF, JOF
Em - 1, June 18-20, Calgary - BJJ (hit window but recovered)
B - 1, June 22, Gooseberry Lake - ETJ
Eb - 1, June 24, Calgary - CFNS
- 1, on several occasions during the summer, Long Lake P.P. - GWG, LOG
B - 3 calling, July 1, Milk River - GWG, LOG
- 3 adults, July 7-17, Gooseberry Lake - Ebel et al. (1973b)
Eb - 1, July 23, Edmonton - ETJ
Fc/Em - 1, Sept. 6, Elk Island N.P. - Burns et al. (1986)
1974. B - 1, July 11, Little Fish Lake - Smith (1975)
- nest with 2 eggs, July 13, Standard - NGK; on July 21 nest had 2 young (Kondla 1974; Pinel & Butot 1978)
Eb - nested in willows near Devon, third week of July - BOL (Edmonton Journal of Aug. 10, 1974)
1975. B - up to 5 birds calling, June 25-29, Milk River Canyon - WWS
1976. B - 1, July 1, Pakowki Lake - WWS
- 1, July 24, Wainwright - WCH, SML
- several males, summer, Ribstone Creek northeast of Czar - Bradley & Bradley (1977c)
1977. Sa/Em - 2, June 5, Raven - WIH, WGM
Em - 1, June 11, Calgary - JHC
Eb - 2, June 24 to Aug. 21, St. Michael - JNC
- 1, Aug. 3, Calgary - EMG
1978. B - 1, July 23, Mirror - CDB
Fc/Em - 1, Aug. 21, just west of Edmonton - CRW
1980. Eb - 2, July 1, Sherwood Park - ETJ
- 1, July 9, Beaverhill Lake - ETJ

Yellow-billed Cuckoo *(Coccyzus americanus)*

The second record for the province is given below.

1971. Ev - 1 (photographed), July 25, Rocky Mountain House - BLM. This bird hit a window and was captured alive, but soon died - Salt & Salt (1976).

FAMILY: TYTONIDAE

[Barn Owl *(Tyto alba)*]

Godfrey (1986) erroneously reports a Barn Owl at Lethbridge on July 8, 1979. The report, including an identifiable photograph (Assmann 1981), was actually of a screech-owl. The only Alberta record that the authors are aware of is a hypothetical report on July 22 and 23, 1967 from the Cypress Hills (Sadler & Myres 1976).

FAMILY: STRIGIDAE

Eastern Screech-Owl & Western Screech-Owl *(Otus asio & Otus kennicottii)*

The sixth edition of the A.O.U. checklist (1983) formally recognizes two species of screech-owls in North America: the Eastern Screech-Owl *(Otus asio)* and the Western Screech-Owl *(Otus kennicottii)*. Formerly, these two species were regarded as subspecies of *Otus asio*. Therefore, historical records have not been separated as to species. Stepney (1986) records a 1983 specimen as *O. kennicottii macfarlanei* (Western Screech-Owl) and a 1985 specimen as *O. asio swenki* (Eastern Screech-Owl).

Stepney (1986) summarizes all known Alberta records, which we have listed below because of their obscurity and significance. Of particular note is the 1897 record, which apparently is the first for the province, and the only known nesting record to date.

Of the twelve Alberta records listed below, half are from southwestern Alberta and half are from west-central Alberta. In the latter region both species are represented by specimens. More extensive field work is required in Alberta to assess the status of these two species. Southeastern Alberta river valleys should not be overlooked because of the proximity of populations in southern Saskatchewan and northeastern Montana.

It is interesting that seventy-five percent of the records occurred during the fall/winter period, indicating that this species may simply be a vagrant to Alberta. In Alberta, there are no records of screech-owls calling in the spring.

1897. Eb - 1 egg (from a set), April 30, Banff - PMA (specimen #Z79.112.899)
1930. Ev - 1 female (red phase), Dec. 3, Pigeon Lake - B. W. Cartwright (PMA specimen #Z79.113.48)
1942. Ev - 1, Nov. 28, Belvedere - A. D. Henderson (Farley 1944)
1952. Ev - 1, Aug., Waterton Lakes N.P. - L. Gladstone (Seel 1969)

1954. Ev - 1 adult (gray phase), Oct. 21, Swan Hills area - PMA (specimen # Z79.114.237)

1955. Ev - 1 juvenile male (red phase), found dead, Aug., Lesser Slave Lake - Al Oeming

1959. Ev - 1 adult (gray phase - captured, photographed & released), Dec. 21, Cardston - R. K. Shaw

1967. Ev - 1 adult (calling), Oct. 17, Waterton Lakes N.P. - Seel (1969)

1979. Ev - 1 (photographed), July 8, Lethbridge - Assmann (1981)
- 1, Dec. 26, Lethbridge - Christmas Bird Count

1983. Ev - 1 adult female (dark plumaged gray phase), fall, Hinton - Mike Hampson (specimen is in Hampson's possession). Stepney (1986) describes this as being of obvious *O. kennicottii macfarlanei* plumage.

1985. Ev - 1 adult female (gray phase), March 20, Edmonton - PMA (specimen # Z85.20.1). Stepney (1986) describes this as being of obvious *O. asio swenki* plumage.

Great Horned Owl *(Bubo virginianus)*

Adamcik et al. (1978) studied a population near Rochester and discovered that as the densities of snowshoe hares *(Lepus americanus)* increased, so did the number of breeding pairs of Great Horned Owls. Adamcik & Keith (1978) found that Great Horned Owl dispersal was significantly greater during years when the hare and owl populations were declining.

Pinel (1978) studied the brood size and food habits of this species near Calgary from 1975 to 1977. Interesting prey items included a female Mallard and egg, a female Northern Pintail and egg, a Short-eared Owl and a Sharp-shinned Hawk. Holroyd & Van Tighem (1983) list prey items such as Blue Jay, Steller's Jay, northern flying squirrel *(Glaucomys sabrinus)* and red squirrel *(Tamiasciurus hudsonicus)* for nests found in Banff and Jasper National Parks.

1976. B - 9 hooting, April 18, Touchwood Lake - DVW, LIW

Snowy Owl *(Nyctea scandiaca)*

The population of Snowy Owls that stay in Alberta for the winter varies from year to year. The dates for fall arrival and spring departure also vary significantly. During the decade, the first fall arrivals were reported between October 1 and November 13, and the last spring departures were between March 28 and May 4. Higher numbers were observed in 1972 and 1974. There are two records for the mountains, one being a very unusual summer report. There are three interesting summer records for northern Alberta in 1976, 1977 and 1979. A very unusual spring migratory movement was reported from the Edmonton area in 1973.

Boxall & Lein (1982a) investigated the territoriality of Snowy Owls near Calgary from 1976 to 1978. Males appeared to be nomadic, but many females defended territories of 150 to 450 hectares for periods of up to 80 days. Juvenile females defended larger territories than did adult females, with higher proportions of less preferable habitats. Lein & Webber (1979) found that wintering Snowy Owls were seen more frequently in stubble and hay fields than in pasture, fallow fields or residential areas. They believed that this selection was related to the varying density and accessibility of small mammals in the different habitats.

Höhn (1973) discussed hunting attempts by this species in farmlands near Edmonton. Lein & Boxall (1979) studied the interactions between Snowy and Short-eared Owls in winter. They suggested that there was no serious competition between the species because they differed in habitat use, and as a result, caught different types of prey. Boxall (1979) observed attempted food piracy by a long-tailed weasel *(Mustela longicauda)* on a Snowy Owl. Trann (1976a) reports that a Snowy Owl banded on January 16, 1972 near Morinville was recovered three years later in Ontario. Kerlinger & Lein (1988) investigated the causes of mortality of 76 birds between 1973 and 1983. Of the 76 carcasses examined, the major causes of death were collision (66.2%), starvation (14.1%) and gunshot (12.7%). Boxall & Lein (1989) observed the behavior of Snowy Owls southeast of Calgary during the winters of 1976/77 and 1977/78. Highlights of their research were: 1) owls spent 98% of daylight hours perched; 2) peak of owl activity was around sunrise and sunset; and 3) an implication that most hunting occurred at night because their chief prey species was the nocturnal deer mouse *(Peromyscus maniculatus)*.

1971. Sc - 1, March 28, Frank Lake - ROL, DVW
Fa - 1, Nov. 7, Jenner - CDB, WGM
1972. W - 33, Feb. 17, 979 sq. km east and northeast of Calgary - Weseloh (1973b)
Sc - 1, April 21, Innisfail - LEH
Fa - 1, Oct. 13, Rockyford - PAL
W - 9, Dec. 17, Edmonton - GWG, LOG
1973. W - 12, Feb. 27, Valleyview to Peace River - JIW
S - 6 birds flying north in partial V-formation at a fair altitude, April 15, Ellerslie - MIH
Sc - 1, April 21, Hanna - EDB, EGB
- 1, April 22, Mundare - GWG, LOG
Fa/Em - 1, Oct. 16, Waterfowl Lake, Banff N.P. - Holroyd & Van Tighem (1983)
Fa - 1 immature, Nov. 3, Cooking Lake - LOG
- 1 immature, Nov. 3, Beaverhill Lake - DID, LOG
1974. Sb - 13, April 12, Tofield - GWG, LOG, TWT
Sc - 1, April 6, Cheadle - HWP, CAR
- 1, May 4, Tofield - DID, GWG, LOG (This spring, birds remained much later in the Edmonton area than in the Calgary area.)
Fa - 1, Oct. 1, Edmonton - RIP
Fb - 54, Oct. 20, Tofield - DID, ROS, JIW
- 46, Oct. 27, Tofield - BEB, GEB, DID, MIH
1975. Sc - 1, May 4, Crossfield - LEH
Eb - 1, July 9, Lake Louise, Banff N.P. - Holroyd & Van Tighem (1983)
Fa - 1 female, Nov. 8, Irricana - RUB
- 2, Nov. 8, Edmonton - JOF, LAP
1976. Sc - 1, April 7, Galahad - KAS
Eb - 1, July 2-4, Lesser Slave Lake - Bradley (1980a)
Fa - 1, Oct. 25, Beaverlodge - KAA
1977. Sc - 1, April 20, Edmonton - AAJ
Eb - 1 resident throughout the summer, Syncrude lease - Francis & Lumbis (1979)
Fa - 1 immature male, Nov. 13, Indus - PEB, TOD
1978. Sc - 1, April 23, Sexsmith - GEY, JOY
- 1, April 26, Daysland - KWT
Fa - 1, Oct. 22, Frank Lake - CFNS
1979. Sc - 1, April 13, Eagle Lake - WWS
- 1, April 14, Bear Lake - ELC, GEC
Eb - 1, May 26/27, Ft. McMurray - Wiseley (1980a)
Fa - 1 male, Oct. 22, Pollockville - HWP

1980. Sc - 2, March 31, Cheadle - TSS
Fa - 4, Oct. 31, Beaverhill Lake - PSA, JHF
- 1, Nov. 2, Crossfield - KNC
Fb - 12, Nov. 23, Egg Lake - JIL
- 12, Nov. 30, Egg Lake - DVC, SYL

Northern Hawk Owl *(Surnia ulula)*

This species was commonly seen in the winters of 1973/1974 and 1974/1975. Included below are sightings that the authors feel are significant because of peak numbers, nesting, or location in the grassland or parkland regions outside of the breeding range.

Holroyd & Van Tighem (1983) note that there were families of young in the Vermilion Pass (Banff National Park) burn area from 1975 to 1978 inclusive. Fisher (1974) describes the response of a Northern Hawk Owl to a lure.

1971. B - cavity nest with 6 young, May 23, MacKay - ETJ
W - 8 banded in the winter of 1971/72 in Edmonton area - REG (Houston 1972b)
1972. Eb - Aug. 1, Sawback Lookout, Banff N.P. - Holroyd & Van Tighem (1983)
1973. W - 1, Feb. 18 & March 3, Sheep River Ranger Station - WWS, CRW
- 1, Feb. 27, Stettler - LML (Houston 1973b)
- 1, March 9 & 10, Seebe - BIL, VGL, HAV, DVW
- 1, March 27, Calgary - VGL, HWP, CAR
F - 1, Oct. 6, Tofield - LOG
- 1, Oct. 12, Calgary - HWP, BIR, CAR
- 1, Nov. 3, Camrose - ROB
Fb - 21, Oct. 13, Edmonton to Tofield - DID, LOG (Houston 1974a)
- 9, Nov. 5, 72 km stretch of road from High Level to Paddle Prairie - AJM (Lang 1974a)
- 8, Nov. 18, Edson - REG
- 6, Nov. 19, 72 km stretch of road from Kinsella to Vegreville - THB
W - 1, Dec. 7, Priddis - RWN
- 28 birds during December within 161 km radius of Edmonton with 7 banded - LOG, REG (Houston 1974b)
1974. W - 1, Jan. 6, Morley - BIL, VGL
B - pair at nest in muskeg stump, May 12, Edson - REG
- 1, July 1, Mayerthorpe - EVC, JLC
1975. W-S - 38 sightings of which 18 birds were caught for banding, on nine dates from Dec. 1/74 to April 6/75, near Edson - REG, ARS
S - 1, March 28, Millarville - SEA, JOD
B - nest with 2 young, June 6, MacKay - ETJ
- 1 pair & 2 immatures, June 19, Syncrude lease - Sharp & Richardson (1976)
- 2, July 7, Storm Mt. Lodge, Banff N.P. - SCO
- 1 adult & 3 immatures, July 28, second area of Syncrude lease - Sharp & Richardson (1976)
Eb - June 28, Lake Louise, Banff N.P. - Holroyd & Van Tighem (1983)
- 3, Aug. 7, Crowfoot Glacier, Banff N.P. - Holroyd & Van Tighem (1983)
F - 1, Nov. 8, Lake Louise, Banff N.P. - GRW
1976. W - 1, Dec. 11, Turner Valley - VAH, MRL
1977. S - 1, April 1, Banff N.P. - HNB
B - 1 adult & 2 young, June 23, Chip Lake - Serr (1977d)

1978. W - 1, Jan. 3, Calgary - MTM
B - 1 immature, July 28, Little Kakwa River - CRW
1979. W - 1, Jan. 31, Irricana - CLM
S - 2, April 13, Didsbury - ADS, DOS
F - 1, Sept. 9, Cascade Valley, Banff N.P. - Holroyd & Van Tighem (1983)
W - 1, Dec. 16, Stettler - Christmas Bird Count
- 1, Dec. 30, Bow Summit, Banff N.P. - Christmas Bird Count
1980. F - 1, Oct. 31, Springbank - JOT
W - 1, Dec. 20, Banff - Christmas Bird Count

Northern Pygmy-Owl *(Glaucidium gnoma)*

The first confirmed nesting of this species in Alberta occurred in 1971, and subsequently in 1977. All summer and fall records known to the authors are listed below. New winter observation localities away from the mountains include Priddis, Dogpound, Water Valley and Longview.

Recent observations in 1971 in the Rocky Mountain House area, in 1976 and 1980 in Jasper National Park and in 1977 in the West Castle River area alter Salt & Salt (1976) when they state that this species has been seen in Jasper National Park only in the winter, and it has not been recorded for extreme southwestern Alberta. Seel (1969) also reports this species from Waterton Lakes National Park.

An unusually high number were observed near Water Valley in January of 1978.

Salt (1979b) observed Northern Pygmy-Owls feeding on western toads *(Bufo boreas)* and spotted frogs *(Rana pretiosa)* in the Canmore and Kananaskis areas.

1971. Eb - 5 downy young, June 18, Rocky Mountain House - VOH, ETJ (the nest was in a cavity 2.1 m up in a poplar stump; destroyed by road clearing crew)
1972. F - 1, Sept. 17, Dutch Creek - CRW
1974. W - 1, March 11, Priddis - SCO, RIP
1975. F - 1, Oct. 13, Pigeon Mt. Lookout - EMG, WGG
1976. B - 1, May 1, near Horseshoe Lake, Banff N.P. - KVT
Eb - nesting, May, near Jasper cemetery - KED (Karasiuk et al. 1978)
F - 2, Sept. 11, Waterton Lakes N.P. - JDL
- 1, Nov. 14, Jasper N.P. - GHF, PIF
1977. B - nest found on April 25, Tunnel Mt., Banff N.P. - Holroyd & Van Tighem (1983); young first heard in nest on June 5.
- 2 young at nest, June 15, Carrot Creek, Banff N.P. - GEH
Eb - 2 immatures, July 19, West Castle River - CAW, CRW
F - 1, Oct. 18, Bluffton - Schutz (1978)
W - 1, Dec. 11, Dogpound - RUB
1978. Wb - 7, Jan. 2, Water Valley - Christmas Bird Count
W - 1, Feb. 9 & 19, Longview - GRW
1980. B - single birds calling at three different locations during late April & early May, Jasper N.P. - Holroyd & Van Tighem (1983)
F - 1 adult female, Sept. 4, Grande Cache - PMA specimen

Burrowing Owl *(Athene cunicularia)*

There are few spring observations, but it appears that this species arrives in southern Alberta from the end of March to mid-April. There are two extralimital records for the mountains listed below. The last fall records occur from mid-September to mid-October.

Lang & Weseloh (1973) summarize the results of a survey regarding this species. They placed inquiries in 65 newspapers from Edmonton south to the Canada/United States border. They obtained 19 reports of nesting sites used formerly but not active in 1972; 14 reports of nesting sites in which young were raised in 1972; and 2 reports of traditional nest sites for which no information was available in 1972.

Wedgwood (1978) prepared a status report on the Burrowing Owl in Canada based on work done between 1970 and 1977. He stated that the numbers of this species have been decreasing since the mid-1900's and are still dropping. He estimated 2,000 breeding pairs in Canada in 1977 (0 pairs in British Columbia, 110 pairs in Manitoba, 610 pairs in Alberta and 1,280 pairs in Saskatchewan). The range has retracted only slightly, but distribution has become very fragmented. Habitat loss has occurred, but it is not a major cause of the current decline. Contributing factors to the decline in numbers were: destruction of burrowing mammals, secondary poisoning, shooting, road kills and conversion of pasturage from native to tame grasses. Possibly other factors exist, but so much is unknown (including migration routes and wintering range) that solid data is hard to come by. In Alberta, Wedgwood (1978) found that the range of the Burrowing Owl parallels that of the Richardson ground squirrel *(Spermophilus richardsonii)*, with the owl breeding north to Endiang and Didsbury, and west to Didsbury, Aldersyde, Ft. Macleod and St. Mary's Reservoir. There were also isolated breeding sites in the Wainwright area. The major distribution of nest sites was north of the Red Deer River and south of the Bow River. In eight years of work, the first spring arrival date in Alberta was March 30 to April 18 and the last fall departure date was October 4 to 20.

Haug (1989) studied the Burrowing Owl from 1986 to 1989. She found that the range in Alberta had contracted on both the northern and western edges, continuing the decline that Wedgwood (1978) illustrated. Although Haug states that the decline in numbers is continuing, her estimate of the number of breeding pairs in Canada in 1988 was 2,532 (4 pairs in British Columbia, 28 pairs in Manitoba, 1,000 pairs in Alberta and 1,500 pairs in Saskatchewan).

1971. B - 8 adults & 4 young, July 9, Redcliff - WWS, CRW
Fc - 2, Sept. 20, Cessford - DVW
1972. Sa - 2, April 19, De Winton - GEA, WEB
Eb - 17 young from 2 nests, southwest of Provost - Houston (1972d)
1973. Em - 1, May 4, Banff N.P. - Holroyd & Van Tighem (1983)
1974. Sa - 1, March 30, Tillebrook P.P. - WGG
B - 2 pairs nested, young flying on July 15, southwest of Stettler - LML (Houston & Houston 1974)
Fc - 1, Oct. 20, Milo - CFNS
1975. Sa - 1, April 12, Aldersyde - GRW
F - 6, Sept. 12-16, Spondin - JHE, ALW
1977. B - 14+ (colony of adults & young), Aug. 7 & 14, Airdie - MAN, PIN
Fc - 2, Oct. 18, Cessford - HWP, JOR
1978. Sa - 1, March 31, Lethbridge - HRS
1979. Sa - 2, April 8, Shepard - CFNS
Eb - 1 found dead, June 16, Jasper N.P. - Holroyd & Van Tighem (1983)

B - 37 (25 young), July 15, Keoma - RUB
1980. Eb - 2 adults & 3 young (young banded), July 16, 16 km east of Cochrane - HWP
B - 3 young banded, July 23, Shepard - HWP, DNS
Fc - 1, Sept. 20, Shepard - ANS

Barred Owl *(Strix varia)*

Boxall & Stepney (1982) studied the distribution and status of this species in Alberta. Fifty-five percent of the total number of records from 1912 to 1980 came from the 1970's. During the decade, the observations ranged from the northernmost one at the confluence of the Peace and Notikewin Rivers to Beauvais Lake Provincial Park in the south. In the list below are some observations not included by Boxall & Stepney (1982).

Boxall & Stepney (1982) state that Barred Owls prefer the mixed wood boreal forest and recently have adapted to forests of a predominantly coniferous character. The authors believe that even though the range of Barred Owls has expanded in Alberta into other biogeographical zones, the nesting habitat has remained similar. The species prefers mixed woods with large deciduous trees, particularly along lakeshores and stream valleys.

1971. Eb - 1, April 18, Morley - WWS
F - 1, Aug. 28, Edmonton - ETJ
1972. Eb - 1 calling, June 27, Battle River near New Norway - PJF
1973. B - 1, June 21, Sturgeon Lake - KVT, CAW
1975. W - 1, Feb. 27, Rycroft - RAE
1976. Eb - 1 calling, April 3, Miquelon Lake - CRW
B - 1, May 7, Jasper to Mt. Kerkeslin, Jasper N.P. - Holroyd & Karasiuk (1977)
- 1 pair, May 18, Cold Lake - WWS
- nest, spring, Blue Lake - Boxall & Stepney (1982)
Eb - 1, June 3, Gregoire Lake - WWS
- 1, July 19, Hay-Zama Lakes - EVC, JLC
1977. B - 2, May 23, Ricinus - SEA, JMP
- nest, May, Jasper N.P. - Boxall & Stepney (1982)
- nest, spring, Blue Lake - Boxall & Stepney (1982)
Eb - 1, May 29, Donnelly - EVC, JLC
1978. W - 1, Jan. 2, Bottrel - JMP, ROW
Eb - nested, Chilver Lake - JRS (Wiseley 1979a)
E - 1, Sept. 29, Ft. McMurray - BRW
- 1 dead on road, Nov. 12, Morley - JMP
1979. Eb - 1, May 26/27, Ft. McMurray - Wiseley (1980a)
B - 1 adult & 1 fledged young, July, Miette River, Jasper N.P. - Boxall & Stepney (1982)
Ev - 1 immature, Aug. 27, 1.6 km east of Calgary - BSD
1980. Eb - 1 calling, May 27, Waterton Lakes N.P. - TEH
B - 1 adult & 1 fledged young, July 20, Miette River, Jasper N.P. - Boxall & Stepney (1982)

Great Gray Owl *(Strix nebulosa)*

High numbers were observed during the winter of 1973/1974 in west-central Alberta. Kondla (1973c) describes a nest at Miquelon Lake Provincial Park, extending the known breeding range southward. There are interesting extralimital summer records from Gorge Creek, Kananaskis Provincial Park and Waterton Lakes National Park.

Nero (1979) lists this species as rare to uncommon in Canada, depending on area and year. He also states that there is a need for research on population, movements and habitat preference throughout its range.

Fisher (1975a & c) gives an account of a possible intraspecific killing by a Great Gray Owl.

1971. B - 1, April 11, Sundre - AWS
- 3, April 25, Brownvale - MAC, ALE, MIM, COS
- 1, June 23, Sundre - HAV
- nest of 4 eggs, May 7, near MacKay - ETJ
- second nest of 2 young, June 6, near MacKay - ETJ

Eb - 1, July 19, Cold Lake - COS

1972. Eb - 1 pair at nest with 3 eggs, May 4, 5 & 9, Miquelon Lake - Kondla (1973c)

B - 1 nest with young, May 11, James River Bridge - RIK
- 2 nests with 3 young each, May 12, MacKay - ETJ
- 2 nests with 3 young each, May 25, Edson - ETJ

Eb - 1, June 22, Belly River, Waterton Lakes N.P. - Sharp (1973)

E - 1, Sept. 1, Canmore - AIH, JNW
- 1, Sept. 12, Waterton Lakes N.P. - Sharp (1973)

1973. Ew - 1, Jan. 28, Banff N.P. - PAL

Eb - 1 adult, July 23, Waterton Lakes N.P. - JIB

Fb - 5, Nov. 6, Rocky Mountain House - JMO

F - 1, Nov. 22, Viking - WIW

Ew - 2, winter of 1973/74, Elk Island N.P. - LOG

1974. W - 1 bird standing on a dead Great Gray Owl (possible intraspecific killing), Jan. 23, Jasper N.P. - Fisher (1975a & c)

Wb - 9-15, Feb. 3-10, Edson - REG (Houston 1974b)

Ew - 1, Feb. 15, Beynon - MAB
- 3, Feb. 17, Elk Island N.P. - CAW, CRW (Burns et al. 1986)

B - 9, March 31, Whitecourt - REG, ARS
- 3 nests, summer, Glenevis to Edson - Wolford (1974b)

1975. B - 1 adult, April 27, Westward Ho - WWS

F - 1 immature, Sept. 1, Syncrude lease - Sharp & Richardson (1976)

1976. Eb - 1, June 20, Gorge Creek - JRP

B - 1, June 24, Caroline - MGO, TOO

E - 1, Aug. 26, Waterton Lakes N.P. - ROH
- 1, Sept. 1, Banff N.P. - KVT
- 1, Sept., Neutral Hills - Bradley & Bradley (1977b)

1977. E - August, Elk Pass (Kananaskis P.P.) - DNB (Wiseley 1979a)

Long-eared Owl *(Asio otus)*

It appears that Long-eared Owls arrive in Alberta in late March and early April. There is an extremely early spring record in 1977 for the Wagner Bog area near Edmonton.

Extralimital nesting was recorded for Banff National Park, Cochrane and near Ft. Chipewyan. All nesting records east of Highway 2 and south of the latitude of Drumheller are listed below because this species appears to be a very sporadic nester in this region. The 1978 nesting record from Calgary is interesting.

The last fall migrants leave the province from mid-October to mid-November.

There is one winter record during the decade for Calgary.

1971. Sa - 1, March 27, Indus - ROL, DVW
Fc - 1, Oct. 29, Calgary - WIH
1972. Sa - 1, March 26, Calgary - PAL
B - 1 immature, sitting close to an old American Crow nest, June 11, Rockyford - JEC, JOC
Fc - 1 adult, Nov. 18, Carseland - CFNS
1973. Sa - 1, April 12, Ellerslie - MIH
Eb - 1 juvenile, June 9, Cochrane - VGL, CAR
Fc - 1, Nov. 19, Calgary - RHR
1974. B - 1, May 9, Pinhorn Grazing Reserve - CAW
- 1 pair with 3 young in nest, June 24, Bindloss - WWS
Fc - 1, Oct. 16, Milo - EWB
1975. Sa - 1, April 6, Little Smoky - ETB, REL
B - 1 on nest, April 15, east of Airdrie - HWP
Eb - 1, June 11, Hillsdale Meadow, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, July 8, Syncrude lease - Sharp & Richardson (1976)
Em - 1, Oct. 10, Syncrude lease - Sharp & Richardson (1976)
Fc - 1, Oct. 23, Edmonton - DAP
- 1, Oct. 24, Milo - SEA, JOD, JMP
1976. Eb - nest with 5 eggs, May 2, Muleshoe Lake, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, May 29-30, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
- 1, June 13, Gregoire Lake - WWS
- 1 adult & 4 young, Aug. 4 & 5, Lake Claire - RAE
1977. Sa - 2, March 8, Wagner Bog - GHF, PIF, DVW, LIW
B - 1 on nest, April 13, 10 miles southeast of Didsbury - HWP
Eb - 1 dead, Aug. 23, Ft. MacKay - Francis & Lumbis (1979)
Fc - 1, Oct. 29, Pekisko - JOR
1978. Sa - 1, April 9, Calgary - EDQ
B - 2, May 8, Calgary - KRD (one bird on nest with 2 eggs; another bird on nest 3.7 m away with 1 owl egg and 2 crow eggs and crows in same shrub complaining)
1979. Sa - 1, April 6, Calgary - RKO, ADS
1980. Ew - 1, Dec. 21, Calgary - Christmas Bird Count

Short-eared Owl *(Asio flammeus)*

Because this species overwinters in some years, it is difficult to assess spring migration. However, it appears that the first migrants arrive during March and early April. High numbers were observed during the springs of 1972 and 1978 east of Calgary.

Trann (1976b) gives data on the number of nests, clutch size and nesting success of this species in the Edmonton area.

In the fall, high numbers of birds were observed in 1974 near Tofield. The highest winter counts came from Calgary in 1972/1973 and from Edmonton in 1979. Trann (1976a) states that a Short-eared Owl banded as a nestling near Daysland in 1974 was recovered on January 1, 1975 in California.

Although the species is known to fluctuate in numbers in relation to food supply, there seems to have been a population decline in southern Alberta.

1971. Sa - 1, April 1, Shepard - ROL, DVW
1972. Sb - 33, March 26, Indus to Delacour - GEA, WEB
B - 16 nests with clutch sizes of 4-10, May 30 to July 4, in a 65 sq. km area near Beaumont - Trann (1974)
W - 21, Dec. 30, Calgary - Christmas Bird Count
1973. W - 23, Jan. 7, Calgary - WIH, WGM
B - 2, July 2, Maskinonge, Waterton Lakes N.P. - ROH
Ew - 1, Dec. 26, Cremona - DPD, SAD
1974. W - 1, Feb. 5, Lethbridge - HES
Sa - 1, March 8, Bowden - JDJ
Fb - 101, Sept. 29, Tofield - DID
1975. Ew - 1, Feb. 9, Edson - REG, ARS
Sa - 1, April 28, Horseshoe Lake (Ft. McMurray) - Sharp & Richardson (1976)
Fc - 1, Oct. 10, Syncrude lease - Ward et al. (1976)
- 1, Dec. 6, Kathyrn - ADM, JIM
1976. W - 1, Feb. 22, Miquelon Lake - BRB, GAB
Sa - 1, April 3, Huxley - EVC, JLC, JDJ
Sb - 17, April 19, Beaumont - KWT
F - 20, Aug. 4, Lake Claire - RAE
1977. Sa - April 19, Ft. McMurray - Gulley (1979)
B - 1, July 27, Margaret Lake - Höhn & Weseloh (1978)
1978. Sb - 21, April 16, Chestermere Lake to Indus - JOD, JMP
Em - 1, August, Castleguard Meadows, Jasper N.P. - Holroyd & Van Tighem (1983)
Ew - 2, Dec, 20, Beaverlodge - GEC
1979. Ew - 1, Jan. 13, Bear Lake - ELC, GEC
- 1, Feb. 2, Beaverlodge - GEC
Sa - 1, March 18, Beaverhill Lake - DID
Em - 1, Aug. 21, Elbow River headwaters - Wiseley (1979a)
W - 19, Dec. 16, Edmonton - Christmas Bird Count
1980. Sa - 1, April 6, Shepard - ANS
Eb - 2, June 25, Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
W - 6, Dec. 14, Edmonton - HOH

Boreal Owl *(Aegolius funereus)*

There are more records of the Boreal Owl in southern Alberta during this decade than in the previous decade. Most of the records are of birds calling in the spring, indicating that their nesting range in Alberta may be farther south than that depicted by Salt & Salt (1976). Recent work (Ryder et al. 1987; Holt & Hillis 1987) indicates a breeding range in the Rocky Mountains extending from Canada south to northern New Mexico.

1972. Eb - 1, March 30, Bragg Creek - RIP, CAW, CRW
1973. Eb - 1, March 12, Bragg Creek - VGL, RIP
1974. W - 1, Feb. 3, Edson - REG; snatched from a branch by hand
B - 1, April 19, Elk Island N.P. - WWS, CAW, CRW (Burns et al. 1986)
- 1, April 24, Cooking Lake - GWG, LOG, REG
1975. Eb - 1, April 14, west of Bragg Creek - CAW, CRW
B - 2, May 20, Vista Lake, Banff N.P. - SCO
- 1, July 1, Storm Mt. Lodge, Banff N.P. - SCO
W - 1, Dec. 12, Saskatoon Island P.P. - Fairbarns et al. (1981)

1976. B - 1, May 3, Cyclone Creek, Banff N.P. - KVT
- 5 young, May 19, Edmonton - REG
Eb - 1, July 31, Cameron Lake, Waterton Lakes N.P. - JHT
1977. Ew - 1, Jan. 2, Water Valley - Christmas Bird Count
1979. Eb - 4, April 26, Kananaskis River - Wiseley (1979a)
- 3+, May 12, Goat Creek (Kananaskis) - Wiseley (1979a)
- 1, July 21, Lower Kananaskis Lake - Wiseley (1979a)
W - 1, Dec. 26, Red Deer - Christmas Bird Count
1980. Eb - 1, April 13, Priddis - CRW, MEW, RAW
B - 6+ calling, May 1, Medicine Lake, Jasper N.P. - Holroyd & Van Tighem (1983)
- nest with eggs hatching, June 29, Mowitch Creek, Jasper N.P. - Holroyd & Van Tighem (1983)

Northern Saw-whet Owl *(Aegolius acadicus)*

The nesting range as depicted by Salt & Salt (1976) is misleading in the grassland region. In the grasslands, this species nests occasionally along the wooded river valleys as observations from Writing-on-Stone Provincial Park in 1976 and 1980, and from Dinosaur Provincial Park in 1977 verify.

There are three spring records for Waterton Lakes National Park listed below, even though Sharp (1973) states that this species has never been recorded for the park.

Winter records within the known nesting range in Alberta are scarce. Outside of the known nesting range, they have been observed at Rockyford, Parkland, Hilda, Strathmore and Lethbridge during the winter. Perhaps the majority of Northern Saw-whet Owls in Alberta are migratory. The combination of resident and migratory birds in Alberta might explain the wide variation from early April to early June in observing sets of eggs in nests. Polygyny and asynchronous nesting (Marks et al. 1989) may also explain the variation in egg dates.

Johns et al. (1978) recorded their observations of the nesting behavior of a pair of owls near Edmonton.

1971. Ew - 1, Feb. 5, Rockyford - JOC
1972. Eb - 1 calling, May 30, Dry Island Buffalo Jump P.P. - WWS
1973. Ew - 1, Nov. 18, Parkland - TEL
- 1, Nov. 26, Calgary - HAV
1974. Ew - 1, Jan. 7 & 8, Calgary - VGL, HWP, BIR, CAR
Eb - 2 immatures, June 4, Calgary - HAB, BAD, BIL
1975. B - 30+ calling, April 18, south side of Pigeon Lake - JRS, CRW
1976. Ew - 1, Jan. 18, Hilda - ROB
- 1, Jan. 19, Strathmore - DOH, BOM
B - nest with eggs, April 3, Miquelon Lake - CRW
- 1 bird found dead, April 6, Waterton Lakes N.P. - Rogers (1976b)
Eb - several immatures, July 6, Writing-on-Stone P.P. - CRW
1977. W - 1, Jan. 11, Calgary - JOT
- 1, Feb. 15, Calgary - WIH
S - 7, Feb. 26, Wagner Bog - DRG, HAL, TWT
B - 2, March 3, Banff N.P. - Holroyd & Gartshore (1978)
- 1 calling, April 29, Waterton Lakes N.P. - CAW, CRW
Eb - 1 calling, May 12, Dinosaur P.P. - photographed by CRW (Kondla 1978)
1978. Ew - 1, Dec. 19, Lethbridge - BEH, MIO, GTS

1979. B - 2, May 18-22, Waterton Lakes N.P. - WWS
1980. W - 1 adult male, Jan. 13, Edmonton - PMA specimen
B - 11, April 24-29, Lower Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - 1, May 30, Writing-on-Stone P.P. - CAW

FAMILY: CAPRIMULGIDAE

Common Nighthawk *(Chordeiles minor)*

Common Nighthawks arrive in Alberta in the last two weeks of May. The last fall migrants are usually reported from August 26 to September 20. An unusually late bird was observed in 1973. Observations of migrant flocks in Alberta are rare, but they were noted in the spring of 1974 and the falls of 1975 and 1976. Ward et al. (1976) provide fascinating numbers observed during migration watches in 1975 from the Syncrude lease.

It is the opinion of the authors that there has been a major decline of this species in Calgary during the decade.

1971. Sa - 1, May 30, Little Fish Lake - CFNS
B - 15-20, July 4, Dinosaur P.P. - Kondla (1978)
Fc - 1, Aug. 30, Calgary - RIP
1972. Sa - 2, May 30, Dry Island Buffalo Jump P.P. - WWS
Fc - 1, Aug. 29, Calgary - RIP
1973. Sa - 1, May 29, Calgary - DPD
Fc - 1, Oct. 11, Irricana - WWS
1974. Sa - 2, May 24, Cheadle - TSS
Sb - several flocks of up to 25 birds each passing over Sherwood Park, June 7 - ACB, ELB
Fc - 1, Sept. 1, Cheadle - TSS
1975. Sa - 1, May 21, Syncrude lease - Ward et al. (1976)
- 1, May 23, Edmonton - STJ
- 1, May 26, Cold Lake - GRG, PAG, MIH
B - 19, Aug. 6, Pakowki Lake - RUB
Fb - 309, Aug. 18, Syncrude lease - Ward et al. (1976)
F - 137, Aug. 19; 100, Aug. 20; 61, Aug. 21; 46, Aug. 22; Syncrude lease - Ward et al. (1976)
Fc - 1, Aug. 26, Calgary - HWP
- 6, Sept. 7, Syncrude lease - Ward et al. (1976)
1976. Sa - 1, May 20, Cold Lake - WWS
Fb - 35+, including a flock of 30+, flying south at sunset, Aug. 9, Gregoire Lake - WWS
Fc - 1, Sept. 16, Calgary - KVT
1977. Sa - 1, May 18, Mildred Lake - WWS
B - 25-30, Aug. 12, Dinosaur P.P. - CAW, CRW
Fc - 1, Sept. 10, Calgary - HWP
1978. Sa - 1 to 3 birds, May 27/28, Yamnuska, Edmonton, Ft. McMurray & Grande Prairie - Wiseley (1979b)
Fc - 1, Sept. 5, Jasper N.P. - Holroyd & Van Tighem (1983)
1979. Sa - 2 & 5, May 26 & 27, Lethbridge & Ft. McMurray respectively - Wiseley (1980a)
Fc - 1, Sept. 2, Edmonton - DVS
1980. Sa - 1, May 26, Calgary - HWP, JOR
Fc - 1, Sept. 20, Calgary - FAN

Common Poorwill *(Phalaenoptilus nuttallii)*

There are only two records for the decade. The 1971 record is unusually late and is erroneously reported by Godfrey (1986) as October 22. It is noteworthy that there were no records from the Alberta side of the Cypress Hills during the decade.

1971. Ev - 1, Oct. 27, Lindbergh - JSH; bird picked up in weakened condition and kept alive until July 12, 1972 when it was released near Vernon, British Columbia - Boag (1972), Goulden (1972a)

1979. Em - 1, June 5, Bow Valley P.P. - JHA, KAT (Wiseley 1979a)

[Whip-poor-will *(Caprimulgus vociferus)*]

There is one hypothetical report.

1979. Ev - 1 calling, May 17-30, 48 km west of Edmonton - fide RAE (Gollop 1979a)

FAMILY: APODIDAE

Black Swift *(Cypseloides niger)*

This species generally arrives in Banff and Jasper National Parks in mid-June. During the decade, Black Swifts were observed as early as June 8 and as late as September 12. The species continues to nest at Johnston's Canyon (Kondla 1973b; Holroyd & Van Tighem 1983). There is a new colony reported for Maligne Canyon, and possible colonies at Sunwapta and Athabasca Falls (Karasiuk et al. 1978; Holroyd & Van Tighem 1983).

1972. B - 4 nests with adults sitting on them, July 29, Johnston's Canyon, Banff N.P. - Kondla (1973b)

1973. Eb - 2, June 28, Canmore - VGL

B - 2 adults, Aug. 7, Lake Louise, Banff N.P. - SCO

- 1 adult, Aug. 8, Vista Lake, Banff N.P. - SCO

- 1 adult, Aug. 10, Lake Louise, Banff N.P. - SCO

1975. B - 5-7 active nests, middle falls of Johnston's Canyon, Banff N.P. - Holroyd & Gartshore (1978)

- 2 active nests, Sept. 6, Johnston's Canyon, Banff N.P. - WAR

1976. B - up to 8 adults, June 23 to mid-July, Kananaskis Lakes - Salt (1976)

- 5-7 active nests, middle falls of Johnston's Canyon, Banff N.P. - Holroyd & Gartshore (1978)

1977. Sa - June 8, Sunwapta Falls, Jasper N.P. - Holroyd & Van Tighem (1983)

- 5, June 13, Banff N.P. - Holroyd & Gartshore (1978)

B - 5, July 11, Eisenhauer Junction, Banff N.P. - GRW

- 3, July 28, Talbot Lake, Jasper N.P. - RUB

- 13 adults, summer population, Athabasca Falls, Jasper N.P. - Karasiuk et al. (1978)

- 14 adults, summer population, Maligne Canyon, Jasper N.P. - Karasiuk et al. (1978)

- 18 (adults & juveniles), Aug. 17, Johnston's Canyon, Banff N.P. - GRW

- 5-7 active nests, middle falls of Johnston's Canyon, Banff N.P. - Holroyd & Gartshore (1978)
Fc - Sept. 12, Banff N.P. - Holroyd & Gartshore (1978)
1978. B - 1, July 8, Egypt Lake Trail, Banff N.P. - GRW
- 12 adults, July 31, Maligne Canyon, Jasper N.P. - Holroyd & Van Tighem (1983)
- 2, Aug. 29, Maligne Canyon, Jasper N.P. - JMP
- probably nests at Athabasca Falls, Jasper N.P. - Holroyd et al. (1979)
- 8, possibly 10 active nests, Johnston's Canyon, Banff N.P. - Holroyd & Van Tighem (1983)
1979. B - 4 nests, June 26, Johnston's Canyon, Banff N.P. - HOC
- 1, Aug. 31, Blakiston Beaver Pond, Waterton Lakes N.P. - TEH
1980. B - 1, Aug. 15, Waterton - TEH

FAMILY: TROCHILIDAE

Ruby-throated Hummingbird *(Archilochus colubris)*

During the decade, Ruby-throated Hummingbirds arrived in Alberta from May 21 to 28, and left the province by the end of August. The fall departure dates are significantly earlier than "the end of September or early October" as given by Salt & Salt (1976). The nesting range as outlined by Salt & Salt (1976) appears to be inaccurate as it relates to the grassland region. The authors know of no nesting records for the grassland region, and only one migration report, in 1977.

1972. Sa - 1 female, May 21, Dry Island Buffalo Jump P.P. - WWS
1973. Sa - 1 male, May 27, Winagami Lake P.P. - WWS
Fc - 3 females/immatures, Aug. 22, Edmonton - BEB, GEB
1974. Sa - 1 female, May 25, Tofield - JIW
Fc - 1, Aug. 28, Dunstable - BIL, VGL
1975. Sa - 1, May 24, Stettler - LML (Serr 1975b)
- 1, May 24, Vegreville - BUB, BYB, ERB, PRB
F/Fc - 9 immatures mist-netted from Aug. 1 to 28, Edmonton - ETJ
Fc - 1 male, Aug. 29, Edmonton - LIW
1976. Sa - 1, May 20, Edmonton - JOF
B - nest 7.6-9.1 m up in paper birch *(Betula papyrifera)*, June 30, Lac La Biche - KAS
Fc - 1, Aug. 20, Grande Prairie - WAM
- 2, Aug. 31, Vegreville - ERB
1977. Sa/Em - 1 male, May 23, Cottonwood Slough, Jasper N.P. - Karasiuk et al. (1978)
Em - 1, Aug. 12, Strathmore - TSS
1978. Sa - 3, May 27/28, Stettler - Wiseley (1979b)
Fc - 1 female, Aug. 29, Wembley - LEW
1979. Sa - 1, May 21, Redwater - EDS
- 1, May 26/27, Grande Prairie - Wiseley (1980a)
- 3, May 26/27, Stettler - Wiseley (1980a)
1980. Sa - 3, May 24/25, Edmonton - Wiseley (1981)
Fc - 1, Sept. 1, Edmonton - PSA

Black-chinned Hummingbird *(Archilochus alexandri)*

The first verified record for the province is given below.

1979. Ev - 1 male found dead (PMA specimen), June 25, Calgary - Stepney & Boxall (1981)

Anna's Hummingbird *(Calypte anna)*

This is a new species for the province, the first verified report occurring in 1976 (Pinel & Riddell 1977b). Both reports are of immature males observed during October.

1976. Ev - 1 immature male, Oct. 6-31, Calgary - Pinel & Riddell (1977b)
1977. Ev - 1 immature male, Oct. 13 to Nov. 5, Calgary - Pinel & Butot (1978)

Calliope Hummingbird *(Stellula calliope)*

Reports of this species in the 1970's are scarce. It appears that the first spring migrants arrive in the last two weeks of May. The latest report for the decade is August 20. The June 25, 1976 record of eleven males in a burned area near the Saskatchewan River Crossing, Banff National Park indicates that they had already left their nesting territories.

Brunton et al. (1979) studied a nest in Kananaskis Provincial Park in 1977 and 1978. They found the incubation period to be 16 days and the nestling period to be 18 to 21 days. The nest was built in exactly the same location each year and nest construction was completed during incubation. They postulate that these unusual nesting characteristics may be adaptations to severe environmental constraints at high elevations near the northern limit of the species' range.

Typical habitat during the breeding season in southwestern Alberta appears to be willow (*Salix* spp.) swamp with scattered white spruce *(Picea glauca)*.

1971. B - 1 pair, June 27, Canmore - RUJ
1972. Sa - 2 males & 1 courting pair, May 31, Bow Valley P.P. - CAW, CRW
1973. Eb - 3, July 1, Longview - BIL, VGL
B - 1 male, Aug. 3, Alderson Lake, Waterton Lakes N.P. - JIB
1976. Sa - 1, May 29, Yamnuska - Weseloh (1976a)
B - 1 female on nest 2.4 m off ground on dead horizontal limb of white spruce *(Picea glauca)* along cutline, June 20, Bow Valley P.P. - HWP
- 11 males, June 25, in a burned area near Saskatchewan River Crossing, Banff N.P. - Holroyd & Van Tighem (1983)
- 1 male, July 28, Beauvais Lake - WWS
1977. Sa - 1 male, May 28, Bow Valley P.P. - JOR
Fc - Aug. 20, Upper Athabasca River, Jasper N.P. - Holroyd & Van Tighem (1983)
1978. B - nest with 2 eggs, June 13, Pocaterra Creek - Brunton et al. (1979)
1979. Sa - 2 males, May 18, Pincher Creek - WWS
- May 20, Vermilion Lakes, Banff N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 4, May 24, Yamnuska - Wiseley (1981)

Rufous Hummingbird *(Selasphorus rufus)*

Rufous Hummingbirds arrive in southern Alberta in the last two weeks of May, and leave during late August. There is an unusually late migration record for 1976. Four extralimital reports of birds come from within the grassland region at Gladys, Little Fish Lake, Lethbridge and Strathmore.

1971. Sa - 1 male, May 23, Vermilion Lakes, Banff N.P. - RIP
Em/Fa - 1, Aug. 8, Gladys - BIL, VGL, DVW
1972. Em/Sa - 1 male, May 27, Little Fish Lake - RAS (Kondla et al. 1973)
B - 10 males defending feeding territories, mid-June, Bow Valley P.P. - CAW, CRW
1973. Sa - 1 female, May 28, Waterton Lakes N.P. - JHT
Sa/Sb - 10, May 28, Highwood Pass - JIW
Fc - 1, Aug. 22, Calgary - RUB
1974. Eb - 1 male, July 22, Lethbridge - HES, MIS
Fc - 1, Sept. 15, Calgary - RUB
1975. Sa - 1, May 22, Grande Prairie - WAM, YVM
Fc - 1, Aug. 24, Calgary - RUB
1976. Sa - 1, May 19, Jasper to Mt. Kerkeslin, Jasper N.P. - Holroyd & Karasiuk (1977)
- 1 male, May 21, Calgary - JDJ
Fc - 1 female, Oct. 7-9, Calgary - Butot (1977a)
1977. Sa - May 17, Jasper N.P. - Holroyd & Van Tighem (1983)
Eb - 1, June 28, Ricinus - Butot (1977d)
Em - 1, Aug. 12, Strathmore - TSS
Fc - Aug. 30, North Saskatchewan River, Banff N.P. - Holroyd & Van Tighem (1983)
1978. Sa - 1 female, May 22, Canmore - EMV
B - 1 male, June 25, Grande Prairie - WAM, YVM
Fc - 1 female, Aug. 21, Calgary - RUB
1979. Sa - 1 male, May 18, Grande Prairie - YVM
- 1 female, May 23, Bottrel - SFJ
1980. Sa - 2, May 14, Pincher Creek - WWS
Eb - 1, July 31, Police Outpost P.P. - HWP

FAMILY: ALCEDINIDAE

Belted Kingfisher *(Ceryle alcyon)*

Records for the decade indicate that early spring migrants arrive from March 31 to April 26. Most birds leave the province by mid-October with some stragglers remaining into November and early December. The species regularly overwinters at Calgary, Canmore and Banff. In the winter of 1974/1975, one bird overwintered along the Clearwater River south of Rocky Mountain House.

Salt & Salt (1976) indicate that this species nests throughout southeastern Alberta. The authors have found it to be rare and irregular along the lower reaches of the prairie rivers and other water bodies in southeastern Alberta where the water is murky.

1971. Sa - 1, April 9, Cochrane - HAV
Fc - 2, Nov. 11, Carseland - BIL, VGL, WGM
1972. Sa - 1 female, April 10, Calgary - BIL, VGL
Fc - 1 male, Dec. 6, Calgary - HWP
1973. Sa - 1 female, April 23, Calgary - HWP, CAW

1974. Sa - 1, April 16, Calgary - HWP
- 1, April 17, Edmonton - BRB, CHB, GEB
Fc - 1, Oct. 3, Calgary - HWP
Ew - 1, winter of 1974/75, Clearwater River south of Rocky Mountain House - WYR
1975. Sa - 1, April 26, Carseland - BIL
1976. Fc - 1 female, Oct. 8, Calgary - RUB, KYM
1977. Sa - 1, March 31, Calgary - ADS
Fc - 1, Oct. 18, Edmonton - TEW
1978. Ew - 1, Feb. 17, Dardanelles, Waterton Lakes N.P. - KEB
Sa - 1, April 6, Canmore - EMV
1979. Sa - 1 male, April 1, Calgary - DPD
Fc - Oct. 9, Jasper N.P. - Holroyd & Van Tighem (1983)
1980. Sa - 1, April 14, Calgary - LIG
Fc - 1 male, Nov. 23, Calgary - OLD

FAMILY: PICIDAE

Lewis' Woodpecker *(Melanerpes lewis)*

Salt & Salt (1976) state that this species "breeds irregularly and uncommonly in the Rocky Mountain regions of southwestern Alberta from Waterton Lakes to Jasper." The authors know of no recent nesting records, the last being from Jasper National Park in 1946 (Cowan 1955). There are only six records for the province during the decade, five of which occurred in May and early June. The 1975 and 1976 records are from locales east of the Rockies.

Collister & MacKay (1986) report two May sightings for the Priddis area in 1968 and 1970. These should be added to those compiled by Sadler & Myres (1976) for that decade.

During the 1950's, this species was reported to be regular in the Crowsnest Pass (ETJ, pers. comm.) where it is absent or very rare today. This species' preference for recently burned montane forest may explain its disappearance in Alberta. Significant forest fires have not occurred in the Crowsnest Pass for several decades.

1971. Ev - 1 adult, May 8, 24 km west of Longview - RFC (Pinel & Butot 1978)
1972. Ev - 1, May 19, Waterton Lakes N.P. - Sharp (1973)
1975. Ev - 1 adult, May 15, Calgary - HWP, JOR (Pinel & Butot 1978)
1976. Ev - 1, Aug. 20, Strathmore - TSS
1977. Ev - 1, June 2, Banff N.P. - Holroyd & Gartshore (1978)
1980. Ev - 1, May 3, Lac des Arcs - Gollop (1980a)

Red-headed Woodpecker *(Melanerpes erythrocephalus)*

The records for the decade are listed below. It is interesting that all reports are during the spring from May 30 to June 24.

1971. Ev - 1 adult, June 1 & 3, south of Elkwater - WWS, CRW
- 3 (1 photographed), June 6, Medicine Hat - DIK
1974. Ev - 1, June 11, Foremost - GEF
1976. Ev - 2, May 30, Red Deer - Weseloh (1976a)
- 1 adult, June 24, Kananaskis P.P. - Salt (1976)

1978. Ev - 1, June 11, Wardlow - TWT, ALW
- 1 adult, June 16, Beynon - MAB

Yellow-bellied Sapsucker *(Sphyrapicus varius)*

In the 1970's, Yellow-bellied Sapsucker included Red-naped Sapsucker as a subspecies. Many observers did not bother separating the two subspecies in this decade. Therefore, some of the observations below may, in fact, be of Red-naped Sapsuckers (eg. Cypress Hills, Beauvais Lake, Pincher Creek, Onefour and Pinhorn Grazing Reserve).

This species arrives in Alberta in late April and early May, and leaves by late September.

Future field work is needed to clarify the status of sapsuckers in Alberta.

1971. Sa - 3, May 8, Cochrane - SEA, KSC, DAG, RIP
Em/Eb - 1, May 18, Elkwater - WWS
Fc - 3, Sept. 12, Calgary - RIP
1972. Sa - 3, May 4, Miquelon Lake - WWS
B - most common woodpecker species from Tolman Bridge to Dry Island Buffalo Jump P.P. during the summer - Smith & Kondla (1972)
1973. Sa - 1, May 4, Calgary - RBM
- 1, May 5, Cooking Lake - JIW
Fc - 1, Sept. 16, Elk Island N.P. - DEG
1974. Sa - 1, April 27, Dunstable - BIL, VGL
- 1 pair, April 28, Calgary - HWP, CAR
Em - 2, April 30, Onefour - WWS
- 1 female, May 4, Pinhorn Grazing Reserve - WWS
Fc - 1, Sept. 15, Dunstable - ENHC
1975. Sa - 1, May 2, Peace River - RIP
- 2, May 4, Miquelon Lake - JIW
- May 4, Syncrude lease - Sharp & Richardson (1976)
Eb - 1, July 18, Elkwater - WWS
Fc - 1, Sept. 19, Edmonton - PJC, RCC
1976. Sa - April 25, Ft. McMurray - Gulley (1979)
Eb - 1, July 28, Beauvais Lake - WWS
Fc - 1, Sept. 22, Calgary - JEI
1977. Sa - 1 male, April 24, Water Valley - JMP
- 2 males, April 24, Ft. MacKay area - WWS
- April 25, Lower Bow River, Banff N.P. - Holroyd & Van Tighem (1983)
B - uncommon summer resident along Red Deer River downstream to Hutton - Wallis (1977)
Fc - 2 immatures, Sept. 25, Ft. MacKay area - WWS
1978. Sa - 1 male, April 30, Wembley - ELC, GEC
Fc - 1 male, Sept. 13, Millarville - HWP
1979. Sa - 1, May 10, Debolt - ELC, GEC
Fc - 2 juveniles, Sept. 8, Bottrel - SFJ
1980. Sa - 1, May 3, Calgary - ANS
Eb - 1 male, June 27, Pincher Creek - WWS
Fc - 1, Sept. 7, Calgary - ANS

Red-naped Sapsucker *(Sphyrapicus nuchalis)*

There are few records of this newly separated species during the decade, since it was considered only a subspecies of the Yellow-bellied Sapsucker. There is no migration data for the 1970's, so it is unknown if this species differs appreciably in the timing of its migration from the previous species.

All the summer records are listed below under a "B" category, because the breeding range of this species has not been determined in Alberta. Our assessment indicates that this species nests in the foothills and mountains of southwestern Alberta north to at least Banff National Park and Calgary, with an isolated population in the Cypress Hills. Observations from the lower Milk River and lower Red Deer River may represent extralimital summer records.

1972. B - 1 pair feeding young, July 6, Reesor Lake - WWS
1973. B - regular summer resident in Waterton Lakes N.P. - Sharp (1973)
1974. B - 3, July 8, Pinhorn Grazing Reserve - WWS
Em/Fc - 1 immature male, Sept. 30, Camrose - PMA specimen
1975. B - 2 males, June 8 & 11, Cypress Hills - WWS
1976. Sa - 1, May 1, Banff N.P. - JRS, CRW
S/B - 1 male, May 10, Beauvais Lake - WWS
1977. B - 1, May 24, Elkwater - CRW
- 1, June 20, Red Deer River near Hutton - Wallis (1977)
1978. B - 1, May 18, Waterton Lakes N.P. - CRW
- 1 male, May 31, Bob Creek - CAW
1979. B - 2, July 17, Paine Lake area - CAW
1980. B - 3, May 31, Elkwater - CAW, CRW

Red-breasted Sapsucker *(Sphyrapicus ruber)*

The first confirmed record for the province is given below.

1974. Ev - 1 (photographed), April 22, Henderson Lake (Lethbridge) - HRS (Houston & Shadick 1974); also observed on April 24 by MYH, MIO, HES

Downy Woodpecker *(Picoides pubescens)*

Salt & Salt (1976) depict this species as nesting throughout the province. In analyzing the records for the decade, the authors felt that the vast majority were not significant, but decided to include all reports of this species from the river valleys in the grassland region. There are no records from east of Carseland along the Bow River, and the sightings along the Red Deer River extend sporadically as far east as Bindloss. It would be interesting to know the status of this and the following species along the Milk, lower Oldman, South Saskatchewan, lower Bow and lower Red Deer Rivers.

1971. B - 1, May 30, East Coulee - CFNS
1973. S - 1, March 25, Rosedale - CDB
1976. W - 1, Nov. 7, Namaka Lake - JOD, JMP
W - 69, Dec. 19, Edmonton - Christmas Bird Count
1977. S - 1 female, April 8, Mossleigh - RUB
B - "first reports" for Dinosaur P.P. - CAW, CRW (Kondla 1978)

Hairy Woodpecker *(Picoides villosus)*

There are many records for the province. As was the case with the Downy Woodpecker, the authors are including records mainly from the river valleys in the grassland region. There were no sightings from the Bow River east of Carseland, but Hairy Woodpeckers were observed sporadically along the lower Red Deer River east to the Saskatchewan border.

1973. S - 1, March 25, Rosedale - CDB, WWS
B - 1, July 2, Finnegan - LOG
1974. B - 4 adults, 1 of which was at a nest, May 26, Empress - WWS
- 3, July 2, Dinosaur P.P. - BCM, RIP
1977. W - 1, Feb. 26, Dinosaur P.P. - JOD, MVT
B - 1, June 14, Bindloss - Wallis (1977)
- 1, June 17, Alkali Creek near Buffalo - Wallis (1977)

Three-toed Woodpecker *(Picoides tridactylus)*

The authors listed records of high numbers of this species, observations during the nesting season that were extralimital, and winter records from localities in the grassland and parkland regions. The 1977 record at Keoma is very unusual. The first record of this species in the Cypress Hills during the summer was in 1975. Since then, this species has been recognized as a permanent resident of the Cypress Hills.

1972. Eb - nest with 2+ young, July 7, Waterton Lakes N.P. - Sharp (1973)
1973. W - 1, Feb. 24, Forestburg - GRG, PAG
- 6, Dec. 16, Edmonton - Christmas Bird Count
1974. W - 1, Feb. 9, Elk Island N.P. - CAT
Ew - 1 pair, Feb., Reesor Lake - Edwards (1974)
Eb - 1, May 4, Edmonton - JOB, JWB
1975. Eb - 2 females, June 23, Elkwater - WWS
1976. B - 8 (mostly males), April 30, Red Deer River (Tyrell Flats to park boundary), Banff N.P. - KVT
- 2 males, May 16, Priddis - LOB, BIL
Eb - 1 male & 2 females, May 18, Elkwater - GRG, MAH
- nest, July, Elkwater - CRW
1977. Eb - 1 female, June 11, Keoma - RUB
1980. Eb - 1 pair, June 29, Elkwater - HWP
Wb - 13, Dec. 20, Banff - Christmas Bird Count

Black-backed Woodpecker *(Picoides arcticus)*

Most of the records shown below are winter records for the southern part of the province. This species seemed to be more common than usual in the Edmonton area in the winter of 1977/1978.

1971. W - 1 female, Jan. 16, Lusk Creek - TSS
1972. W - 1, Dec. 3 & 6, Bon Accord - MAM, PAT, JIW
1973. W - 1 female, Jan. 28, Brown-Lowery Nat. Area - WWS, CAW, CRW, RAW
- 1 female, Jan. 28, Edmonton - JOA, MAM, PAT
- 1 male, Feb. 17, Blue Rock Creek - CRW
- 1, Feb. 18, Edmonton - GRG, PAG
- 1 female, March 3, Sheep River Ranger Station - CRW
B - males & females observed occasionally throughout the summer, Crimson Lake P.P. - Biggs et al. (1973)

Wa - 3 females, Oct. 8, Calgary - RBG, SCO
W - 1 female, Oct. 21, Bow Valley P.P. - BIL, VGL
1974. S - 1, April 3, Edmonton - DVS
Wa - 1, Sept. 2, Edmonton - BEB
W - 1, Oct. 27, Edmonton - BEB, GEB
- 1, Nov. 30, Leduc - PJC, RCC
1976. B - 2 nests, May 30, Peers - REG
- 1, July 9, The Pallisades, Banff N.P. - Holroyd & Van Tighem (1983)
1977. W - 1 female, Nov. 12, Calgary - GRW
Wb - 5, Dec. 18, Edmonton - Christmas Bird Count
1978. W - 1 male, Feb 11 & 19, Calgary - ANS, PES
B - 1, July 11, Lesser Slave Lake - Bradley (1980a)
1980. W - 1 male & 1 female, Nov. 13, Akamina Lake, Waterton Lakes N.P. - TEH

Northern Flicker ***(Colaptes auratus)***

The first spring migrants arrive in late March and early April. Most birds leave the province by the end of September, but stragglers remain into December. Since 1973, there seems to be an increase in winter records. A few regularly winter in Edmonton, Calgary and Lethbridge. They have also been reported for Rockyford, and Banff, Elk Island and Waterton Lakes National Parks during the winter.

1971. Sa - 1, April 9, Strathmore - ISS, TSS
Fc - 1, Sept. 28, Calgary - RIP
1972. Sa - 1, March 24, Cheadle - TSS
Fc - 1, Nov. 22, Edmonton - ROV
- 1, Nov. 30, Calgary - WIH
1973. Sa - 1, April 10, Calgary - DPD
- 1, April 10, Big Hill Springs P.P. - ISS
1974. W - 1, Jan. 13, Rockyford - JEC, JOC
Sa - 1, April 6, Edmonton - DEG
1975. W - 1, Feb. 7, Rockyford - JOC
Sa - 1, March 25, Calgary - HAV
1976. Sa - 2, April 4, Cooking Lake - GFS
1977. Sa - March 26, Banff N.P. - Holroyd & Gartshore (1978)
W - 1, Dec. 26, Waterton Lakes N.P. - Christmas Bird Count
1978. Sa - 2, March 31, Ghost Reservoir - DUC
- 1, March 31, Cheadle - TSS
1979. W - 1, Feb. 21, Elk Island N.P. - RIK
1980. Sa - 3, April 9, Calgary - OLD
W - 1, Dec. 20, Banff - Christmas Bird Count
- 12, Dec. 27, Lethbridge - Christmas Bird Count

Pileated Woodpecker ***(Dryocopus pileatus)***

This species has continued to extend its nesting range eastward along the Red Deer River well into the mixed grassland region. Salt & Salt (1976) have this species breeding as far downstream as Munson. Sadler & Myres (1976) have the range further downstream to the Beynon area. Since then, the Pileated Woodpecker has been observed as far east on the Red Deer River as Duchess, Dinosaur Provincial Park (where it nested in 1989 - E. Savoy pers. comm.) and Jenner. There is also an extralimital record along the Oldman River east of Ft. Macleod in 1978.

Old growth mixed woods, which are becoming increasingly scarce, are the primary habitat for this species in Alberta.

1971. Eb - 1, May 19, Elkwater - WWS
- 1 female, July 6, Bleriot Ferry - Storer & Wilson (1972)
- 2 adults, July 11, Bleriot Ferry - Storer & Wilson (1972)

E - 1 female, Oct. 30, Beynon - MAB (Kondla et al. 1973)

1972. Eb - 1, May 20 and June 5, Tolman Bridge - WWS
- nest with young heard chirping inside, June 10, Red Deer River west of Big Valley - Greenlee (1972)
- 3 adults, June 13, Dry Island Buffalo Jump P.P. - WWS

E - 1 male, Sept., East Coulee - Kondla et al. (1973)

1973. E - 2, March 24, Rosedale - CDB

1974. E - 1, March 30, Rosedale - CDB

Eb - 2, May 4, Rosedale - JDJ, JGM

1975. Eb - 1, May 28, Jenner Ferry - ETJ

1977. Eb - 1 female, April 20, Cambria - HWP, JOR
- 1, May 14, Dinosaur P.P. - KAM
- 1, June 19 and Aug. 18, north of Duchess - Wallis (1977)

1978. Eb - 1, June 1, Oldman River east of Ft. Macleod - CAW

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BRB - Bruce Bembridge
BUB - Bruce Brimacombe
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COB - Colin Brookes
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LITERATURE REFERENCES

The following references were reviewed to abstract pertinent observations and information. The authors did not use data from all of the references listed below. Nevertheless, all references reviewed are listed. By doing so, the reader can see what literature was consulted, and it illustrates the great volume of literature that was written on Alberta non-passerine birds during this decade.

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